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| Supplementary Table S2. Central Brain Tumor Registry of the United States (CBTRUS) brain and central nervous system tumor malignanta histologies |
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| **ICD-O-3 Code** | **Grouping for Multivariate Analysis** | **Histologyb** | **No. (%)** |
| 9421, 9425 | Low grade glioma | Pilocytic astrocytoma | 4772 (42.2) |
| 9400, 9410, 9411, 9420 |  | Diffuse astrocytoma |  |
| 9401 | High grade glioma | Anaplastic astrocytoma | 904 (8.0) |
| 9440, 9441, 9442 |   | Glioblastoma |   |
| 9381, 9424 | Other glioma | Unique astrocytoma variants | 1290 (11.4) |
| 9450 |  | Oligodendroglioma |  |
| 9451, 9460 |  | Anaplastic oligodendroglioma |  |
| 9382 |  | Oligoastrocytic tumors |  |
| 9380, 9431, 9432 |  | Glioma malignant, NOS |  |
| 9391, 9392, 9393 | Ependymal tumors | Ependymal tumors | 1001 (8.9) |
| 9470, 9471, 9472, 9474 | Medulloblastoma | Medulloblastoma | 1693 (15.0) |
| 9473 | Primitive neuroectodermal tumor | Primitive neuroectodermal tumor | 567 (5.0) |
| 9508 | Other  | Atypical teratoid/rhabdoid tumor | 1075 (9.5) |
| 8963, 9364, 9480, 9490, 9500, 9501, 9502, 9504 |  | Other embryonal tumors |  |
| 9390 |  | Choroid plexus tumors |  |
| 9423, 9430 |  | Other neuroepithelial tumors |  |
| 8680, 8693, 9505, 9522, 9523 |  | Neuronal and mixed neuronal-glial tumors |  |
| 9362, 9395 |  | Tumors of the pineal region |  |
| 9540, 9560, 9561, 9571 |  | Nerve sheath tumors |  |

Supplementary Table S2 (Continued).

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| 8720, 8728, 8770, 8771, 8800, 8801, 8802, 8803, 8804, 8805, 8806, 8810, 8815, 8830, 8850, 8851, 8852, 8853, 8854, 8857, 8890, 8900, 8901, 8902, 8910, 8912, 8920, 8921, 8990, 9040, 9150, 9170, 9180, 9220, 9231, 9240, 9243, 9260, 9370, 9371, 9372, 9530, 9538, 9539 |  | Tumors of meninges |  |
| 8020, 8440, 9060, 9061, 9064, 9065, 9070, 9071, 9072, 9080, 9081, 9082, 9083, 9084, 9085, 9100, 9101 |  | Germ cell tumors and cysts |  |
| 8140, 8246, 8260, 8270, 8272, 8280, 8281, 8290, 8300, 8310, 8323 |  | Tumors of the pituitary |  |
| 8000, 8001, 8002, 8003, 8004, 8005, 8010, 8021, 8320, 8710, 8711, 8811, 8840, 8896, 8980, 9120, 9130, 9133, 9140, 9503, 9580 |   | Unclassified tumors |   |
| Abbreviation: ICD-O-3,International Classification of Diseases for Oncology, 3rd Edition; NOS, not otherwise specified. |  |
| aICD-O-3 behavior code = 3. |  |  |  |
| bGrouped as according to Central Brain Tumor Registry of the United States (CBTRUS) histology groupings. |  |