

Table 16:
Primary (Malignant and Non-Malignant) Brain and CNS Tumor
Age-Specific Incidence Rates^{a,b} by Major Histology Groupings, Histology and Age at Diagnosis
CBTRUS 2002-2006^c

Histology	Age at Diagnosis								Age at Diagnosis									
	0-14		0-19		20-34		35-44		45-54		55-64		65-74		75-84		85+	
	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.
<u>Tumors of Neuroepithelial Tissue</u>	3.61	(3.50-3.73)	3.38	(3.29-3.48)	3.13	(3.03-3.25)	4.50	(4.35-4.66)	6.96	(6.76-7.17)	11.89	(11.57-12.21)	17.30	(16.82-17.79)	19.26	(18.65-19.89)	10.88	(10.14-11.65)
Pilocytic astrocytoma	0.92	(0.86-0.99)	0.86	(0.81-0.91)	0.25	(0.22-0.29)	0.13	(0.10-0.16)	0.08	(0.06-0.11)	0.07	(0.05-0.10)	0.09	(0.06-0.13)	0.08	(0.05-0.13)	-	-
Protoplasmic & fibrillary astrocytoma	0.04	(0.03-0.05)	0.04	(0.03-0.06)	0.08	(0.06-0.10)	0.11	(0.09-0.14)	0.14	(0.11-0.17)	0.14	(0.11-0.18)	0.25	(0.19-0.31)	0.17	(0.12-0.24)	-	-
Anaplastic astrocytoma	0.06	(0.04-0.08)	0.06	(0.05-0.08)	0.30	(0.26-0.33)	0.46	(0.41-0.51)	0.50	(0.45-0.56)	0.78	(0.70-0.87)	1.06	(0.95-1.19)	1.04	(0.90-1.20)	0.34	(0.22-0.50)
Unique astrocytoma variants	0.09	(0.07-0.11)	0.10	(0.08-0.12)	0.07	(0.05-0.09)	0.08	(0.06-0.10)	0.11	(0.09-0.14)	0.13	(0.10-0.17)	0.14	(0.10-0.20)	0.08	(0.05-0.13)	-	-
Astrocytoma, NOS	0.23	(0.20-0.26)	0.23	(0.20-0.25)	0.35	(0.32-0.39)	0.43	(0.39-0.49)	0.47	(0.42-0.52)	0.56	(0.50-0.64)	0.88	(0.77-0.99)	1.09	(0.95-1.25)	0.81	(0.62-1.04)
Glioblastoma	0.14	(0.12-0.16)	0.15	(0.13-0.17)	0.39	(0.35-0.43)	1.17	(1.09-1.25)	3.68	(3.53-3.83)	8.08	(7.82-8.35)	12.74	(12.33-13.16)	14.30	(13.77-14.84)	7.62	(7.01-8.28)
Oligodendroglioma	0.06	(0.05-0.08)	0.08	(0.06-0.09)	0.36	(0.33-0.40)	0.59	(0.53-0.64)	0.44	(0.39-0.49)	0.37	(0.31-0.43)	0.23	(0.18-0.29)	0.21	(0.15-0.29)	-	-
Anaplastic oligodendroglioma	-	-	0.02	(0.01-0.02)	0.11	(0.09-0.13)	0.19	(0.16-0.23)	0.23	(0.19-0.27)	0.30	(0.25-0.35)	0.29	(0.23-0.36)	0.20	(0.14-0.28)	-	-
Ependymoma/anaplastic ependymoma	0.29	(0.26-0.33)	0.27	(0.24-0.30)	0.19	(0.17-0.22)	0.30	(0.26-0.34)	0.35	(0.31-0.40)	0.39	(0.34-0.45)	0.34	(0.27-0.41)	0.20	(0.14-0.28)	-	-
Ependymoma variants	0.02	(0.01-0.03)	0.03	(0.02-0.04)	0.11	(0.09-0.14)	0.11	(0.09-0.14)	0.14	(0.11-0.17)	0.15	(0.12-0.19)	0.09	(0.06-0.13)	-	-	-	-
Mixed glioma	0.03	(0.02-0.04)	0.04	(0.03-0.05)	0.21	(0.19-0.25)	0.34	(0.30-0.38)	0.27	(0.23-0.31)	0.24	(0.20-0.29)	0.25	(0.19-0.31)	0.24	(0.17-0.32)	-	-
Glioma malignant, NOS	0.64	(0.59-0.69)	0.54	(0.50-0.58)	0.23	(0.20-0.26)	0.20	(0.17-0.24)	0.25	(0.22-0.29)	0.34	(0.28-0.39)	0.65	(0.56-0.75)	1.24	(1.09-1.41)	1.53	(1.26-1.84)
Non-malignant and malignant neuronal/glia	0.36	(0.32-0.40)	0.37	(0.34-0.41)	0.28	(0.25-0.32)	0.24	(0.20-0.28)	0.21	(0.18-0.25)	0.21	(0.17-0.26)	0.18	(0.13-0.23)	0.16	(0.11-0.22)	-	-
Embryonal/primitive/medulloblastoma	0.58	(0.54-0.63)	0.48	(0.45-0.52)	0.14	(0.12-0.17)	0.09	(0.07-0.12)	0.04	(0.03-0.06)	0.04	(0.03-0.07)	-	-	-	-	-	-
<u>Tumors of Cranial and Spinal Nerves</u>	0.23	(0.20-0.26)	0.26	(0.24-0.29)	0.82	(0.76-0.88)	1.71	(1.61-1.81)	2.96	(2.83-3.09)	3.78	(3.61-3.96)	3.92	(3.69-4.15)	2.96	(2.73-3.22)	1.21	(0.97-1.49)
Nerve sheath, non-malignant and malignant	0.23	(0.20-0.26)	0.26	(0.24-0.29)	0.82	(0.76-0.87)	1.71	(1.61-1.81)	2.95	(2.83-3.09)	3.78	(3.61-3.96)	3.92	(3.69-4.15)	2.96	(2.72-3.21)	1.21	(0.97-1.49)
<u>Tumors of Meninges</u>	0.14	(0.11-0.16)	0.18	(0.16-0.21)	1.23	(1.16-1.30)	3.99	(3.85-4.14)	7.97	(7.76-8.19)	12.76	(12.43-13.09)	20.94	(20.41-21.48)	29.69	(28.94-30.47)	35.07	(33.73-36.44)
Meningioma	0.08	(0.06-0.09)	0.11	(0.09-0.12)	1.05	(0.99-1.12)	3.72	(3.58-3.86)	7.62	(7.41-7.83)	12.39	(12.07-12.72)	20.58	(20.06-21.11)	29.40	(28.65-30.17)	34.94	(33.61-36.31)
Other mesenchymal, non-malignant and malignant	0.05	(0.04-0.07)	0.05	(0.04-0.06)	0.05	(0.04-0.06)	0.08	(0.06-0.10)	0.12	(0.09-0.14)	0.09	(0.06-0.12)	0.12	(0.08-0.16)	0.08	(0.05-0.13)	-	-
Hemangioblastoma	-	-	0.03	(0.02-0.04)	0.13	(0.11-0.16)	0.20	(0.16-0.23)	0.24	(0.21-0.28)	0.28	(0.23-0.33)	0.25	(0.19-0.31)	0.21	(0.15-0.28)	-	-
<u>Lymphomas and Hematopoietic Neoplasms</u>	-	-	0.02	(0.01-0.02)	0.13	(0.11-0.16)	0.30	(0.26-0.34)	0.54	(0.48-0.60)	0.96	(0.87-1.05)	1.82	(1.66-1.98)	2.24	(2.04-2.46)	1.02	(0.81-1.28)
<u>Germ Cell Tumors and Cysts</u>	0.17	(0.14-0.20)	0.18	(0.16-0.20)	0.09	(0.08-0.11)	-	-	-	-	-	-	-	-	-	-	-	-
<u>Tumors of Sellar Region</u>	0.28	(0.24-0.31)	0.46	(0.42-0.50)	1.72	(1.64-1.80)	2.26	(2.15-2.37)	2.73	(2.61-2.86)	3.39	(3.22-3.56)	4.95	(4.69-5.21)	4.37	(4.08-4.67)	2.72	(2.35-3.12)
Pituitary	0.11	(0.09-0.14)	0.32	(0.29-0.35)	1.63	(1.55-1.71)	2.15	(2.04-2.26)	2.61	(2.49-2.74)	3.23	(3.06-3.40)	4.77	(4.52-5.03)	4.22	(3.94-4.52)	2.64	(2.28-3.03)
Craniopharyngioma	0.16	(0.14-0.19)	0.14	(0.12-0.17)	0.09	(0.07-0.11)	0.11	(0.09-0.13)	0.12	(0.10-0.15)	0.16	(0.13-0.21)	0.18	(0.13-0.23)	0.14	(0.10-0.21)	-	-
<u>Local Extensions from Regional Tumors</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Unclassified Tumors</u>	0.23	(0.20-0.26)	0.25	(0.23-0.28)	0.45	(0.41-0.49)	0.66	(0.60-0.72)	0.94	(0.87-1.02)	1.30	(1.19-1.41)	2.48	(2.30-2.67)	5.62	(5.30-5.97)	11.08	(10.34-11.86)
Neoplasm, unspecified	0.19	(0.16-0.21)	0.20	(0.18-0.23)	0.34	(0.31-0.38)	0.47	(0.43-0.53)	0.72	(0.66-0.79)	1.08	(0.99-1.18)	2.19	(2.02-2.37)	5.37	(5.05-5.70)	10.82	(10.09-11.60)
TOTAL^d	4.67	(4.54-4.81)	4.74	(4.62-4.86)	7.59	(7.42-7.76)	13.44	(13.18-13.72)	22.15	(21.79-22.51)	34.11	(33.57-34.65)	51.45	(50.62-52.29)	64.22	(63.10-65.35)	62.02	(60.25-63.84)

^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.