

**Table 24: One-, Two-, Three-, Four-, Five-, and Ten-Year Relative Survival Rates<sup>a,b</sup> For Selected Malignant Brain and Central Nervous System Tumors by Age Groups, SEER 17 Registries, 1995-2006**

Histology	Age Group	# Cases	1-Yr	2-Yr	3-Yr	4-Yr	5-Yr	10-Yr
Pilocytic astrocytoma	0-14	1,243	98.6	98.5	98.0	97.5	97.2	95.7
	0-19	1,488	98.3	98.2	97.5	97.1	96.6	95.5
	20-44	440	96.8	95.3	93.9	91.9	90.8	87.4
	45-54	78	93.5	86.5	86.5	82.1	80.2	67.1
	55-64	33	97.6	84.7	81.4	81.4	81.4	c
	65-74	18	c	c	c	c	c	c
	75+	c	c	c	c	c	c	c
Protoplasmic & fibrillary astrocytoma	0-14	83	92.6	82.3	82.3	82.3	82.3	79.7
	0-19	100	93.8	83.3	83.3	83.3	83.3	81.2
	20-44	221	91.2	81.1	73.0	65.4	58.3	39.2
	45-54	68	72.1	53.3	49.6	43.1	40.5	c
	55-64	83	55.2	26.7	c	c	c	c
	65-74	50	c	c	c	c	c	c
	75+	32	c	c	c	c	c	c
Anaplastic astrocytoma	0-14	139	58.0	41.4	32.1	31.1	31.1	26.5
	0-19	183	61.8	41.7	32.6	31.8	31.8	28.0
	20-44	861	87.2	72.1	62.1	54.8	47.6	36.1
	45-54	482	68.8	46.5	36.4	29.7	28.2	13.7
	55-64	433	46.3	23.1	14.7	11.1	9.0	5.8
	65-74	375	29.4	10.0	5.6	4.5	4.5	c
	75+	265	12.4	c	c	c	c	c
Astrocytoma, NOS	0-14	391	90.9	86.8	84.1	82.4	82.0	78.4
	0-19	493	91.6	86.9	83.7	82.2	81.8	77.9
	20-44	1,032	91.5	82.5	76.1	70.3	64.1	44.3
	45-54	459	70.3	56.3	47.9	40.4	38.8	28.8
	55-64	377	51.8	32.0	21.5	18.9	18.5	10.2
	65-74	324	29.7	19.3	14.9	12.3	11.1	8.4
	75+	326	18.8	9.0	7.5	6.9	c	c
Glioblastoma	0-14	132	46.8	28.0	23.7	22.4	22.4	11.9
	0-19	206	54.4	30.1	21.1	18.6	18.6	10.3
	20-44	1,862	66.0	34.4	23.3	18.5	15.9	10.0
	45-54	3,183	50.5	17.7	9.0	6.2	5.2	2.3
	55-64	4,329	38.4	11.0	5.3	3.2	2.7	0.5
	65-74	4,325	21.4	4.8	2.3	1.7	1.3	0.6
	75+	3,767	9.4	2.2	1.0	0.7	0.6	c
Oligodendroglioma	0-14	107	97.1	96.1	96.1	96.1	96.1	89.6
	0-19	177	98.3	95.8	94.5	94.5	93.6	88.5
	20-44	1,200	97.9	95.5	92.4	88.2	84.1	67.5
	45-54	472	93.6	88.9	85.1	80.4	76.4	56.0
	55-64	227	87.6	77.7	71.3	67.3	63.1	48.5
	65-74	95	77.1	66.1	58.6	54.4	51.3	22.2
	75+	65	60.0	40.6	35.3	31.0	27.2	27.2
Anaplastic oligodendroglioma	0-14	c	c	c	c	c	c	c
	0-19	26	86.4	62.1	c	c	c	c
	20-44	367	93.7	81.6	77.6	70.9	64.0	51.3
	45-54	217	82.6	68.9	62.0	55.6	50.3	36.5
	55-64	159	70.6	54.4	44.2	34.6	31.0	14.4
	65-74	98	50.5	34.4	26.4	19.9	c	c
	75+	39	c	c	c	c	c	c
Ependymoma/anaplastic ependymoma	0-14	398	93.3	84.8	78.1	71.6	68.9	59.5
	0-19	476	94.0	86.3	79.9	74.4	72.1	63.2
	20-44	506	95.8	94.0	92.5	91.1	90.8	87.0
	45-54	267	93.8	89.3	87.2	84.5	83.2	81.4
	55-64	186	94.1	90.2	88.0	85.5	84.9	84.9
	65-74	91	87.5	73.5	68.4	68.4	68.4	58.9
	75+	43	81.1	74.1	61.9	61.9	61.9	33.9

**Table 24: One-, Two-, Three-, Four-, Five-, and Ten-Year Relative Survival Rates<sup>a,b</sup> For Selected Malignant Brain and Central Nervous System Tumors by Age Groups, SEER 17 Registries, 1995-2006**

Histology	Age Group	# Cases	1-Yr	2-Yr	3-Yr	4-Yr	5-Yr	10-Yr
Mixed glioma	0-14	48	91.5	82.0	82.0	76.5	76.5	76.5
	0-19	83	90.1	83.1	83.1	79.5	79.5	79.5
	20-44	615	96.0	88.0	80.0	74.2	67.4	54.9
	45-54	213	86.5	71.0	59.8	52.5	51.4	25.7
	55-64	118	70.2	45.2	36.6	32.4	26.8	c
	65-74	72	67.0	38.0	30.3	c	c	c
	75+	34	c	c	c	c	c	c
Glioma malignant, NOS	0-14	767	72.6	56.8	53.3	51.8	51.8	50.9
	0-19	849	74.0	59.0	55.4	53.2	53.2	52.5
	20-44	464	88.2	77.9	72.8	68.1	63.6	45.9
	45-54	258	66.7	53.8	47.1	43.0	39.6	29.5
	55-64	225	46.1	29.3	26.6	24.6	22.0	21.0
	65-74	257	30.7	19.7	17.5	14.7	14.7	14.3
	75+	439	13.9	8.6	7.3	6.8	5.2	c
Malignant neuronal/glial, neuronal and mixed	0-14	79	87.0	75.3	72.0	67.6	67.6	67.6
	0-19	99	87.6	74.4	70.3	64.6	64.6	64.6
	20-44	123	95.1	88.8	85.4	80.1	77.2	64.3
	45-54	105	91.5	90.8	87.3	80.7	76.5	62.0
	55-64	80	88.9	72.6	71.3	61.0	61.0	54.3
	65-74	39	70.2	59.7	57.5	57.5	57.5	c
	75+	34	76.2	61.8	51.8	51.8	51.8	c
Embryonal/primitive/medulloblastoma	0-14	1,099	81.0	70.2	66.2	63.8	61.9	57.2
	0-19	1,212	81.8	70.8	66.4	63.9	61.8	57.4
	20-44	368	86.6	78.5	71.4	65.9	64.0	49.8
	45-54	46	78.2	62.7	57.0	57.0	53.7	42.5
	55-64	25	67.2	c	c	c	c	c
	65-74	c	c	c	c	c	c	c
	75+	c	c	c	c	c	c	c
Lymphoma	0-14	34	84.6	80.2	80.2	74.9	74.9	74.9
	0-19	55	81.1	76.1	76.1	73.0	73.0	62.8
	20-44	835	35.7	29.5	26.9	25.5	24.0	18.1
	45-54	510	57.8	48.4	45.0	41.0	39.2	29.6
	55-64	555	61.9	50.8	45.0	41.1	36.3	25.4
	65-74	623	48.7	36.9	28.8	22.4	19.8	8.6
	75+	538	35.2	23.6	18.3	16.3	11.8	8.1
<b>Total: All Brain and CNS<sup>d</sup></b>	0-14	5,030	85.4	77.6	74.6	72.5	71.5	67.1
	0-19	6,148	86.4	78.6	75.2	73.1	72.1	68.1
	20-44	9,510	82.1	70.2	64.1	59.7	55.9	44.6
	45-54	6,694	64.1	42.9	36.1	32.4	30.7	22.6
	55-64	7,188	48.8	26.5	20.6	17.9	16.7	11.9
	65-74	6,818	30.5	15.7	12.2	10.5	9.6	6.7
	75+	6,508	16.4	8.5	6.7	6.1	5.2	4.2

<sup>a</sup>The cohort analysis of survival rates was utilized for calculating the survival estimates presented in this table. Long-term cohort-based survival estimates reflect the survival experience of individuals diagnosed over the time period, and they may not necessarily reflect the long-term survival outlook of newly diagnosed cases.

<sup>b</sup>Rates are an estimate of the percentage of patients alive at one, two, three, four, five, and ten year, respectively.

<sup>c</sup>Too few cases to report/estimate.

<sup>d</sup>Includes histologies not listed in this table.

Abbreviations: SEER, Survival, Epidemiology and End Results; NOS, not otherwise specified.