

TABLE 20: ONE-, TWO-, THREE-, FOUR-, FIVE, AND TEN-YEAR RELATIVE SURVIVAL RATES^{a,b} FOR SELECTED MALIGNANT BRAIN AND CENTRAL NERVOUS SYSTEM TUMORS^c BY AGE GROUPS, SEER 1973-2002

HISTOLOGY	AGE GROUP	# CASES	1-YR	2-YR	3-YR	4-YR	5-YR	10-YR
Pilocytic astrocytoma	0-14	700	97.5	96.7	96.3	94.9	94.3	92.7
	0-19	839	97.3	96.7	96.2	94.9	94.2	93.0
	20-44	269	93.9	91.4	89.6	88.2	87.8	83.1
	45-54	49	91.7	87.2	81.9	79.3	76.5	63.0
	55-64	18	d	d	d	d	d	d
	65-74	16	d	d	d	d	d	d
	75+	7	d	d	d	d	d	d
	Total	1,198						
Diffuse astrocytoma	0-14	111	92.7	85.0	81.9	81.9	80.9	79.8
	0-19	139	92.7	86.6	83.4	83.4	82.6	81.9
	20-44	295	89.9	81.9	73.2	63.6	57.0	39.2
	45-54	94	72.4	51.4	41.8	39.4	36.9	20.4
	55-64	87	46.3	21.7	15.9	13.7	10.1	7.7
	65-74	83	30.5	16.7	d	d	d	d
	75+	29	28.2	d	d	d	d	d
	Total	727						
Anaplastic astrocytoma	0-14	132	72.2	57.4	52.3	48.7	48.7	44.8
	0-19	176	75.6	59.0	54.6	50.7	50.7	45.0
	20-44	880	85.0	71.4	62.0	54.2	47.9	32.2
	45-54	368	64.3	44.0	32.8	27.3	25.7	18.9
	55-64	330	44.3	19.4	13.3	10.1	5.3	3.0
	65-74	353	24.4	6.4	3.8	3.2	3.2	d
	75+	187	13.4	4.1	2.2	1.6	d	d
	Total	2,294						
Astrocytoma, NOS	0-14	891	87.4	82.2	80.0	78.3	77.8	74.4
	0-19	1,162	87.7	81.8	79.1	77.6	76.6	73.2
	20-44	2,162	86.8	76.0	68.7	61.8	55.0	38.4
	45-54	968	62.9	41.3	33.4	29.4	27.0	18.0
	55-64	1,185	40.0	20.0	15.0	12.7	11.0	6.7
	65-74	1,191	22.3	9.1	6.2	5.6	5.0	2.5
	75+	609	12.8	5.8	4.5	4.1	3.8	d
	Total	7,277						
Glioblastoma	0-14	181	47.5	24.4	20.0	18.8	17.5	14.6
	0-19	271	50.9	27.9	21.5	19.8	19.0	15.6
	20-44	1,869	60.0	29.8	20.7	16.0	13.3	8.7
	45-54	2,632	42.2	11.6	5.8	3.8	3.3	1.6
	55-64	4,075	31.3	6.0	2.6	1.6	1.3	0.5
	65-74	4,307	16.8	2.7	1.0	0.5	0.4	0.1
	75+	2,639	8.1	1.4	0.7	0.5	0.5	0.3
	Total	15,793						
Oligodendroglioma	0-14	116	93.9	91.0	90.1	89.1	88.0	81.2
	0-19	186	93.5	88.8	87.0	86.3	85.7	81.4
	20-44	957	95.8	92.3	88.5	84.4	80.8	62.8
	45-54	335	91.2	83.7	77.5	71.3	66.3	40.0
	55-64	223	81.8	67.1	58.6	48.5	44.7	28.1
	65-74	121	62.3	50.9	50.4	42.0	36.1	11.4
	75+	46	45.9	33.3	20.4	d	d	d
	Total	1,868						

TABLES

TABLE 20 (CONTINUED)

HISTOLOGY	AGE GROUP	# CASES	1-YR	2-YR	3-YR	4-YR	5-YR	10-YR
Anaplastic oligodendroglioma	0-14	8	d	d	d	d	d	d
	0-19	11	d	d	d	d	d	d
	20-44	153	92.0	76.5	71.5	62.7	55.8	39.0
	45-54	84	83.0	62.8	59.4	48.5	46.1	39.3
	55-64	65	65.3	51.2	41.3	32.6	22.5	d
	65-74	43	43.0	29.5	27.8	25.5	14.3	d
	75+	24	36.0	4.9	d	d	d	d
	Total	380						
Ependymoma/ anaplastic ependymoma	0-14	384	85.2	71.2	61.6	55.0	51.0	45.3
	0-19	429	86.3	73.6	64.1	58.2	54.7	47.2
	20-44	423	91.7	89.9	86.3	85.3	85.2	78.9
	45-54	160	91.3	86.8	80.9	79.6	76.4	69.8
	55-64	123	81.8	77.5	74.6	73.6	68.6	54.4
	65-74	71	77.9	75.5	71.0	69.6	69.6	40.6
	75+	19	66.9	d	d	d	d	d
	Total	1,225						
Mixed glioma	0-14	80	88.5	80.6	76.5	71.0	69.7	63.8
	0-19	112	87.3	80.8	77.9	73.0	72.0	66.7
	20-44	396	92.9	84.7	79.4	72.8	68.4	50.3
	45-54	132	80.7	65.8	55.2	48.6	43.4	33.8
	55-64	91	77.7	51.9	39.2	34.3	31.8	16.0
	65-74	54	52.8	37.6	27.4	18.9	16.8	7.3
	75+	14	d	d	d	d	d	d
	Total	799						
Glioma malignant, NOS	0-14	619	68.8	50.3	46.8	46.0	44.7	41.8
	0-19	699	70.2	53.1	49.5	48.6	47.3	43.5
	20-44	487	81.1	68.6	62.9	56.9	51.9	37.7
	45-54	258	55.8	38.6	32.0	30.8	29.4	21.1
	55-64	336	42.2	26.0	21.7	19.2	16.9	12.0
	65-74	440	23.9	12.7	11.6	8.3	7.4	5.2
	75+	467	10.5	6.9	6.0	4.3	3.4	3.1
	Total	2,687						
Neuroepithelial	0-14	47	85.2	74.5	67.9	63.6	59.2	57.1
	0-19	63	87.4	77.7	72.8	69.5	66.2	64.6
	20-44	68	77.8	65.6	59.4	54.6	53.1	33.8
	45-54	34	53.3	32.8	24.1	21.2	d	d
	55-64	31	36.1	20.0	d	d	d	d
	65-74	31	20.0	13.8	d	d	d	d
	75+	15	d	d	d	d	d	d
	Total	242						
Malignant neuronal/glioma, neuronal and mixed	0-14	110	74.7	63.5	57.6	54.5	54.5	52.2
	0-19	125	75.2	65.3	58.4	54.9	53.0	51.0
	20-44	67	94.0	79.8	76.7	71.7	70.0	61.6
	45-54	49	88.0	86.3	84.3	76.7	74.1	52.7
	55-64	46	87.9	66.0	64.4	62.5	62.5	54.2
	65-74	16	d	d	d	d	d	d
	75+	15	d	d	d	d	d	d
	Total	318						

TABLE 20 (CONTINUED)

HISTOLOGY	AGE GROUP	# CASES	1-YR	2-YR	3-YR	4-YR	5-YR	10-YR
Embryonal/primitive/ medulloblastoma	0-14	956	78.8	68.5	62.9	57.3	54.8	48.0
	0-19	1,060	80.0	69.9	64.3	58.7	55.7	48.4
	20-44	326	85.9	76.6	68.1	62.4	57.0	44.4
	45-54	39	79.6	71.8	71.8	69.6	60.3	d
	55-64	16	d	d	d	d	d	d
	65-74	5	d	d	d	d	d	d
	75+	6	d	d	d	d	d	d
	Total	1,452						
Lymphoma	0-14	19	d	d	d	d	d	d
	0-19	36	69.1	62.8	59.4	52.5	d	d
	20-44	931	22.8	16.4	14.2	12.9	11.5	9.9
	45-54	374	42.7	34.8	31.5	29.0	26.6	15.5
	55-64	383	54.1	41.6	32.5	27.9	23.0	12.9
	65-74	476	45.0	30.4	23.2	18.3	15.3	8.6
	75+	299	33.4	20.4	15.6	12.9	11.3	3.9
	Total	2,499						
TOTAL: ALL BRAIN AND CNS^{c,e}	0-14	4,759	81.3	71.7	67.7	64.8	63.3	59.3
	0-19	5,883	82.5	73.2	69.2	66.4	64.8	60.5
	20-44	9,830	76.7	63.8	57.3	52.2	47.9	36.2
	45-54	5,888	56.4	34.2	27.8	24.7	23.1	16.0
	55-64	7,405	40.5	18.8	14.3	12.3	10.7	7.0
	65-74	7,701	24.6	11.3	8.7	7.4	6.6	4.0
	75+	5,016	14.9	7.7	6.1	5.3	4.8	3.5
	Total	41,723						

^aThe 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.

^bRates are an estimate of the percentage of patients alive at one, two, three, four, five, and ten years, respectively.

^cIn contrast to survival estimates reported in previous editions of the CBTRUS statistical report, brain lymphomas, olfactory tumors of the nasal cavity, and malignant tumors of the pituitary and pineal glands are included.

^dToo few cases to estimate.

^eIncludes histologies not listed in this table.

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