

Table 3.8
Cancer of the Brain and Other Nervous System (Invasive)

5-Year Relative and Period Survival (Percent) by Race, Sex, Diagnosis Year, Stage and Age

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
5-Year Relative Survival (Percent)									
Year of Diagnosis:									
1960-1963 ^a	-	-	-	18	16	21	19	17	21
1970-1973 ^a	-	-	-	20	18	22	19	19	19
1975-1977 ^b	22.4	20.7	24.7	21.8	20.2	24.0	25.4	19.6	34.7 ^f
1978-1980 ^b	23.6	22.4	25.3	23.1	21.9	24.6	28.2	28.8	27.5
1981-1983 ^b	24.1	23.0	25.4	23.3	22.4	24.4	30.8	31.7	29.2 ^f
1984-1986 ^b	27.0	25.8	28.5	26.3	25.0	27.8	30.9	32.8	28.3
1987-1989 ^b	28.9	27.4	30.9	28.3	26.4	30.7	31.3	33.5	28.8
1990-1992 ^b	30.2	30.5	29.8	29.2	29.4	29.0	40.0	41.6	38.1
1993-1995 ^b	32.2	32.8	31.5	31.0	31.3	30.5	41.2	45.7	36.3
1996-2000 ^b	31.9	30.5	33.7	31.1	29.9	32.6	36.3	33.3	39.9
2001-2007 ^b	34.8 ^e	33.4 ^e	36.5 ^e	33.7 ^e	32.9 ^e	34.8 ^e	39.8 ^e	35.2 ^e	44.2
5-Year Period Survival (Percent) ^{cd}									
2007	34.0	32.7	35.6	32.8	31.9	33.9	40.8	37.3	44.3
Stage Distribution (%) 2001-2007 ^c									
All Stages									
Number of cases	29,537	16,390	13,147	25,862	14,443	11,419	1,851	948	903
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	74	75	73	75	76	73	73	72	73
Regional	16	16	16	16	16	16	15	16	15
Distant	2	2	2	2	2	2	3	4	3
Unstaged	7	7	8	7	6	8	9	9	9
5-Year Relative Survival (Percent), 2001-2007 ^c									
Age at Diagnosis:									
Ages <45	65.1	62.4	68.5	65.8	63.3	69.1	59.8	54.4	65.6
Ages 45-54	31.5	28.2	36.4	30.6	27.3	35.4	32.9	26.4	39.2
Ages 55-64	16.0	13.6	19.6	15.4	12.9	19.1	19.4	16.4	23.0
Ages 65-74	8.8	7.5	10.5	8.6	7.5	10.0	9.4	8.1	10.6
Ages 75+	4.3	3.5	4.9	4.2	3.5	4.6	8.4	6.0	9.7
Ages <65	44.9	41.5	49.6	44.3	41.0	48.9	46.2	40.4	52.7
Ages 65+	6.6	5.7	7.4	6.4	5.7	7.1	9.3	7.3	10.6
Stage:									
All Stages	33.4	31.8	35.4	32.5	31.2	34.2	38.0	33.8	42.4
Localized	36.2	34.2	38.8	35.3	33.5	37.6	40.8	37.0	44.7
Regional	21.3	21.0	21.7	20.0	20.1	19.8	28.8	23.8	33.7
Distant	36.8	36.0	37.6	37.8	37.4	38.2	33.9 ^f	31.2 ^f	38.5 ^f
Unstaged	30.4	29.1	31.7	29.6	28.4	30.6	30.9	23.8	38.7 ^f

^a Based on End Results data from a series of hospital registries and one population-based registry.

^b SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).
Based on follow-up of patients into 2008.

^c SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).
Based on follow-up of patients into 2008.

^d Period survival provides a 2007 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2005-2007: 0-1 year survival), (2004-2006: 1-2 year survival), (2003-2005: 2-3 year survival), (2002-2004: 3-4 year survival), (2001-2003: 4-5 years survival).

^e The difference between 1975-1977 and 2001-2007 is statistically significant ($p < .05$).

^f The standard error is between 5 and 10 percentage points.

^g The standard error is greater than 10 percentage points.

- Statistic could not be calculated due to fewer than 25 cases during the time period.