

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 ^g
1978-1980 ^b	23.6	22.4	25.1	23.0	22.0	24.4	28.2	28.7	27.5
1981-1983 ^b	24.1	23.0	25.4	23.3	22.4	24.4	30.8	31.7	29.2 ^g
1984-1986 ^b	26.9	25.6	28.4	26.1	24.8	27.8	30.8	32.8	28.3
1987-1989 ^b	28.9	27.3	30.9	28.3	26.3	30.7	31.6	33.5	29.3
1990-1992 ^b	30.1	30.5	29.7	29.1	29.4	28.8	40.0	41.6	38.1
1993-1995 ^b	32.2	32.9	31.2	30.9	31.3	30.3	41.4	46.1	36.3
1996-1998 ^b	31.1	30.5	31.9	30.3	29.9	30.8	35.8	33.3	38.2
1999-2002 ^b	34.1	31.2	37.7	33.4	30.9	36.7	38.1	31.7	46.3
2003-2009 ^b	34.8 ^f	34.1 ^f	35.7 ^f	33.2 ^f	32.9 ^f	33.6 ^f	41.2 ^f	36.4 ^f	45.8
5-Year Period Survival (Percent) ^{cd}									
2009	33.8	32.8	35.1	32.4	31.8	33.2	40.1	35.4	44.6
Stage Distribution (%) 2003-2009 ^{ee}									
All Stages									
Number of cases	32,735	18,131	14,604	28,472	15,922	12,550	2,267	1,143	1,124
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	76	77	75	76	77	75	75	75	74
Regional	16	16	16	16	16	16	15	15	16
Distant	2	2	2	2	2	2	3	3	3
Unstaged	6	5	7	6	5	7	7	7	7
5-Year Relative Survival (Percent), 2003-2009 ^c									
Age at Diagnosis:									
Ages <45	66.7	64.1	70.0	67.2	64.6	70.5	64.2	59.8	68.3
Ages 45-54	31.9	29.1	36.2	30.9	28.5	34.6	32.0	25.6	39.1
Ages 55-64	15.9	14.3	18.2	15.3	13.6	17.9	16.8	15.9	18.0
Ages 65-74	9.1	8.0	10.5	9.0	8.2	10.1	5.4	1.9	8.8
Ages 75+	4.8	4.9	4.7	4.3	4.7	4.0	11.7	7.5	14.3
Ages <65	45.1	41.9	49.4	44.1	41.1	48.3	48.0	43.1	53.1
Ages 65+	7.0	6.5	7.4	6.7	6.5	6.8	8.5	4.2	11.9
Stage ^e :									
All Stages	33.5	32.3	35.0	32.3	31.4	33.4	39.6	35.5	43.7
Localized	36.4	34.7	38.6	35.2	33.8	37.0	42.5	38.6	46.1
Regional	21.7	21.4	22.0	20.4	20.8	19.8	28.3	22.6	33.6
Distant	36.2	36.9	35.3	36.6	38.2	34.6	29.3 ^g	24.4 ^g	35.0 ^g
Unstaged	26.8	27.5	26.1	25.0	25.5	24.6	39.4	33.6 ^g	44.5 ^g

^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 2010.

^c SEER 18 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, New Jersey and Georgia excluding ATL/RG).

Based on follow-up of patients into 2010.

^d Period survival provides a 2009 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2007-2009: 0-1 year survival), (2006-2008: 1-2 year survival), (2005-2007: 2-3 year survival), (2004-2006: 3-4 year survival), (2003-2005: 4-5 years survival).

^e Stage at diagnosis is classified using SEER Summary Stage 2000.

^f The difference between 1975-1977 and 2003-2009 is statistically significant (p<.05).

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

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

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