

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 <sup>a</sup>	-	-	-	18	16	21	19	17	21
1970-1973 <sup>a</sup>	-	-	-	20	18	22	19	19	19
1975-1977 <sup>b</sup>	22.4	20.7	24.7	21.8	20.2	24.0	25.4	19.6	34.7 <sup>g</sup>
1978-1980 <sup>b</sup>	23.6	22.4	25.1	23.0	22.0	24.4	28.2	28.7	27.5
1981-1983 <sup>b</sup>	24.1	23.0	25.5	23.3	22.4	24.5	30.8	31.7	29.2 <sup>g</sup>
1984-1986 <sup>b</sup>	26.9	25.6	28.4	26.1	24.8	27.8	30.8	32.8	28.3
1987-1989 <sup>b</sup>	28.9	27.3	31.0	28.2	26.3	30.7	31.6	33.5	29.3
1990-1992 <sup>b</sup>	30.1	30.5	29.7	29.1	29.3	28.8	39.5	40.7	38.1
1993-1995 <sup>b</sup>	32.2	32.9	31.3	30.9	31.3	30.3	41.7	46.1	36.8
1996-1998 <sup>b</sup>	31.2	30.5	32.0	30.4	30.0	30.9	36.0	33.8	38.3
1999-2001 <sup>b</sup>	33.8	30.9	37.5	33.0	30.4	36.4	38.6	33.8	45.1
2002-2005 <sup>b</sup>	34.9	34.1	35.8	33.8	33.7	34.1	38.6	32.8	44.5
2006-2012 <sup>b</sup>	35.0 <sup>f</sup>	33.9 <sup>f</sup>	36.3 <sup>f</sup>	33.4 <sup>f</sup>	32.5 <sup>f</sup>	34.6 <sup>f</sup>	43.7 <sup>f</sup>	40.6 <sup>f</sup>	46.5 <sup>f</sup>
5-Year Period Survival (Percent) <sup>cd</sup>									
2012	33.8	32.7	35.1	32.8	31.7	34.0	38.4	35.9	40.9
Stage Distribution (%) 2006-2012 <sup>ce</sup>									
All Stages									
Number of cases	33,736	18,812	14,924	29,008	16,287	12,721	2,431	1,254	1,177
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	77	78	76	77	78	76	76	78	74
Regional	16	15	16	16	15	16	15	14	17
Distant	2	2	2	2	2	2	3	3	4
Unstaged	5	4	6	5	4	6	5	5	5
5-Year Relative Survival (Percent), 2006-2012 <sup>c</sup>									
Age at Diagnosis:									
Ages <45	68.4	66.4	71.2	69.1	67.1	71.8	64.5	61.3	67.5
Ages 45-54	32.8	29.8	37.3	32.4	29.3	37.0	33.9	29.5	39.4
Ages 55-64	16.4	14.8	18.7	16.0	14.2	18.7	16.8	15.3	18.3
Ages 65-74	9.0	7.8	10.4	9.0	7.8	10.6	6.4	7.0	6.4
Ages 75+	4.9	5.0	4.8	4.3	4.8	3.9	9.6	3.4	13.4
Ages <65	45.5	42.8	49.2	44.6	42.0	48.3	48.0	43.9	52.4
Ages 65+	7.0	6.6	7.5	6.7	6.4	7.0	7.4	6.0	8.7
Stage <sup>e</sup> :									
All Stages	33.8	32.8	35.1	32.6	31.8	33.7	39.8	36.8	43.0
Localized	36.7	35.3	38.5	35.5	34.4	37.1	42.0	39.1	45.2
Regional	22.1	21.8	22.5	21.2	21.1	21.4	28.4	24.8	31.7
Distant	36.3	34.7	38.2	35.9	34.9	37.1	36.2 <sup>g</sup>	29.4 <sup>h</sup>	41.0 <sup>g</sup>
Unstaged	24.6	25.5	23.7	22.1	22.6	21.5	43.0	38.3 <sup>g</sup>	47.8 <sup>g</sup>

<sup>a</sup> Based on End Results data from a series of hospital registries and one population-based registry.

<sup>b</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Based on follow-up of patients into 2013.

<sup>c</sup> 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 2013.

<sup>d</sup> Period survival provides a 2012 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2010-2012: 0-1 year survival), (2009-2011: 1-2 year survival), (2008-2010: 2-3 year survival), (2007-2009: 3-4 year survival), (2006-2008: 4-5 years survival).

<sup>e</sup> Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.

<sup>f</sup> The difference between 1975-1977 and 2006-2012 is statistically significant ( $p < .05$ ).

<sup>g</sup> The standard error is between 5 and 10 percentage points.

<sup>h</sup> The standard error is greater than 10 percentage points.

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