

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>	22.5	20.7	24.8	21.9	20.2	24.1	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	23.4	22.4	24.6	30.8	31.7	29.2 <sup>g</sup>
1984-1986 <sup>b</sup>	26.9	25.6	28.5	26.1	24.8	27.8	31.2	32.8	29.1
1987-1989 <sup>b</sup>	28.9	27.3	31.0	28.3	26.3	30.8	31.7	33.7	29.3
1990-1992 <sup>b</sup>	30.2	30.5	29.7	29.2	29.4	28.9	39.3	40.2	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>	31.3	30.6	32.0	30.5	30.1	31.0	35.9	33.6	38.3
1999-2001 <sup>b</sup>	33.8	30.9	37.6	33.0	30.4	36.5	38.4	33.4	45.1
2002-2006 <sup>b</sup>	35.1	34.4	36.0	33.9	33.9	34.0	40.2	34.2	46.3
2007-2013 <sup>b</sup>	34.9 <sup>f</sup>	33.7 <sup>f</sup>	36.2 <sup>f</sup>	33.4 <sup>f</sup>	32.2 <sup>f</sup>	35.0 <sup>f</sup>	41.9 <sup>f</sup>	41.9 <sup>f</sup>	41.9
5-Year Period Survival (Percent) <sup>cd</sup>									
2013	33.6	32.7	34.8	32.4	31.5	33.5	41.2	40.0	42.6
Stage Distribution (%) 2007-2013 <sup>ce</sup>									
All Stages									
Number of cases	34,333	19,105	15,228	29,413	16,468	12,945	2,501	1,310	1,191
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	77	78	76	77	78	76	76	78	75
Regional	15	15	16	15	15	15	15	14	16
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), 2007-2013 <sup>c</sup>									
Age at Diagnosis:									
Ages <45	68.7	66.4	71.6	69.3	66.9	72.5	64.8	62.6	66.9
Ages 45-54	32.8	29.7	37.1	32.5	29.2	37.4	30.7	28.6	33.1
Ages 55-64	16.3	14.8	18.4	15.9	14.3	18.1	17.0	13.8	20.8
Ages 65-74	8.9	7.3	10.8	8.7	6.9	10.9	11.0	14.4	8.6
Ages 75+	4.9	4.7	4.9	4.4	4.5	4.2	7.7	4.2	10.0
Ages <65	45.3	42.5	49.1	44.5	41.7	48.5	47.0	43.4	50.8
Ages 65+	7.0	6.2	7.7	6.6	5.9	7.4	9.8	11.2	9.1
Stage <sup>e</sup> :									
All Stages	33.6	32.4	35.1	32.4	31.2	33.9	39.6	37.5	41.8
Localized	36.5	35.0	38.5	35.3	33.8	37.2	41.7	39.6	43.8
Regional	21.4	21.1	21.8	20.6	20.1	21.0	28.8	26.8	31.1
Distant	33.9	30.0	38.7	33.1	29.1	38.6	36.3 <sup>g</sup>	33.5 <sup>h</sup>	38.1 <sup>g</sup>
Unstaged	25.7	26.5	24.9	23.6	24.2	23.0	41.0	35.3 <sup>g</sup>	47.1 <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 2014.

<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 2014.

<sup>d</sup> Period survival provides a 2013 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 2007-2013 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.