

Table 26.8  
Cancer of the Thyroid (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
<b>5-Year Relative Survival (Percent)</b>									
<b>Year of Diagnosis:</b>									
1960-1963 <sup>a</sup>	-	-	-	83	75	87	-	-	-
1970-1973 <sup>a</sup>	-	-	-	86	82	87	-	-	-
1975-1977 <sup>b</sup>	92.2	91.0	92.5	91.8	90.6	92.3	89.8	-	91.0
1978-1980 <sup>b</sup>	92.1	87.2	93.6	91.5	87.5	92.7	90.1	68.0 <sup>h</sup>	95.5
1981-1983 <sup>b</sup>	93.6	92.2	93.9	93.1	90.9	93.7	96.4	100.0	93.2
1984-1986 <sup>b</sup>	93.2	89.9	94.3	93.2	89.4	94.4	89.5	86.1 <sup>g</sup>	90.3
1987-1989 <sup>b</sup>	94.4	91.6	95.2	94.1	91.6	95.0	92.3	91.2 <sup>g</sup>	92.3
1990-1992 <sup>b</sup>	94.3	90.5	95.5	94.9	91.6	96.0	85.9	84.5 <sup>g</sup>	86.3
1993-1995 <sup>b</sup>	95.4	91.6	96.7	95.6	91.5	96.9	93.2	87.4 <sup>g</sup>	94.3
1996-1998 <sup>b</sup>	95.6	91.0	96.9	95.9	91.3	97.3	95.1	86.8 <sup>g</sup>	96.5
1999-2001 <sup>b</sup>	96.5	94.2	97.1	96.8	94.8	97.4	92.1	88.4 <sup>g</sup>	92.4
2002-2004 <sup>b</sup>	97.3	93.9	98.3	97.4	94.1	98.3	95.9	93.9	96.0
2005-2009 <sup>b</sup>	98.2	96.4	98.6	98.4	96.8	98.8	97.0	90.2	97.9
2010-2016 <sup>b</sup>	98.6 <sup>f</sup>	96.2 <sup>f</sup>	99.0 <sup>f</sup>	98.8 <sup>f</sup>	96.7 <sup>f</sup>	99.3 <sup>f</sup>	96.7	91.6	97.5 <sup>f</sup>
<b>5-Year Period Survival (Percent)<sup>cd</sup></b>									
2016	98.4	96.2	99.0	98.6	96.4	99.1	97.0	93.4	97.6
<b>Stage Distribution (%) 2010-2016<sup>ce</sup></b>									
<b>All Stages</b>									
Number of cases	78,663	18,363	60,300	62,568	15,130	47,438	5,628	971	4,657
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	67	57	69	67	57	70	79	72	81
Regional	28	34	26	28	35	26	14	18	13
Distant	4	6	3	3	6	3	5	7	4
Unstaged/Unknown	2	2	2	2	2	2	2	3	2
<b>5-Year Relative Survival (Percent), 2010-2016<sup>c</sup></b>									
<b>Age at Diagnosis:</b>									
Ages <45	99.7	99.2	99.8	99.8	99.4	99.8	98.9	95.0	99.5
Ages 45-54	98.9	96.7	99.5	98.9	96.7	99.5	99.0	96.6	99.2
Ages 55-64	97.9	95.3	98.9	98.2	95.2	99.3	95.5	94.2	95.5
Ages 65-74	96.7	93.0	97.7	97.1	93.8	97.9	94.6	82.5 <sup>g</sup>	97.1
Ages 75+	87.3	86.0	87.7	89.5	87.9	89.8	79.6	76.1 <sup>h</sup>	78.4
Ages <65	99.1	97.3	99.6	99.1	97.3	99.7	98.3	95.5	98.8
Ages 65+	94.1	91.0	94.9	94.9	92.2	95.4	90.7	81.8	91.9
<b>Stage<sup>e</sup>:</b>									
All Stages	98.3	95.9	98.9	98.5	96.2	99.1	97.2	92.8	97.9
Localized	99.9	99.8	99.9	99.9	99.8	99.9	99.8	99.3	99.9
Regional	98.3	96.5	99.0	98.4	96.6	99.2	94.8	86.6	97.0
Distant	54.9	51.7	57.2	55.1	51.1	58.3	48.2	40.2 <sup>g</sup>	49.8
Unstaged/Unknown	88.5	80.6	91.0	88.4	82.4	90.5	82.7	70.3 <sup>h</sup>	85.5

<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).

<sup>c</sup> Based on follow-up of patients into 2017. [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

<sup>d</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). Expected survival rates are derived from life tables by socio-economic status, geography and race developed by the SEER program.

<sup>e</sup> Based on follow-up of patients into 2017.

<sup>f</sup> Period survival provides a 2016 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>g</sup> Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.

<sup>h</sup> The difference between 1975-1977 and 2010-2016 is statistically significant ( $p < .05$ ).

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

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

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