

Table XXV-1  
THYROID CANCER (Invasive)

TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS (expressed in percents)§:</u>									
<u>1973-95</u>									
All Ages									
Percent Change (PC)	39.4	24.6	47.1	48.7	37.8	55.6	6.7	0.1	6.8
Est. Annual PC (EAPC)	1.3★	0.8★	1.5★	1.6★	1.4★	1.7★	0.3	0.6	0.1
Under 65									
Percent Change (PC)	42.8	17.9	53.4	51.6	29.2	62.1	-2.3	-8.9	-0.9
Est. Annual PC (EAPC)	1.3★	0.6	1.6★	1.6★	1.1★	1.8★	-0.1	-0.4	-0.1
65 and over									
Percent Change (PC)	24.3	47.7	15.0	35.4	72.5	20.3	56.5	82.3	46.5
Est. Annual PC (EAPC)	1.1★	1.5★	0.9★	1.4★	2.3★	1.0★	2.7	-	1.7
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-1.6	-6.1	0.1	-0.4	-4.9	1.6	-5.2	13.9	-10.3
Est. Annual PC (EAPC)	-1.2	-3.0	-0.4	-0.7	-2.3	0.0	-0.5	4.0	-2.0
<u>1991-95 - ALL AGES</u>									
Percent Change (PC)	8.6	-2.3	13.6	8.8	0.7	12.7	-10.0	-38.8	2.3
Est. Annual PC (EAPC)	3.1	0.0	4.4	3.0	0.9	4.0	-2.7	-12.1	0.4
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-95</u>									
All Ages									
Percent Change (PC)	-24.0	-3.4	-34.3	-22.7	0.6	-34.1	-36.3	-34.8	-39.7
Est. Annual PC (EAPC)	-1.4★	-0.5★	-1.9★	-1.4★	-0.4	-2.0★	-1.4★	-1.5★	-1.6★
Under 65									
Percent Change (PC)	-26.7	-13.5	-36.6	-24.2	-9.9	-35.4	-45.0	-39.0	-49.7
Est. Annual PC (EAPC)	-1.3★	-0.7★	-1.9★	-1.2★	-0.4	-1.9★	-2.8★	-3.3★	-2.6★
65 and over									
Percent Change (PC)	-22.6	4.3	-33.1	-21.9	8.5	-33.5	-29.8	-31.2	-32.6
Est. Annual PC (EAPC)	-1.4★	-0.3	-1.9★	-1.5★	-0.3	-2.0★	-0.6	-0.1	-0.9
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-3.8	-0.8	-5.8	-3.4	2.1	-6.6	-2.4	-19.2	4.8
Est. Annual PC (EAPC)	-1.2	0.9	-2.4	-1.1	1.9	-2.8	-0.1	-5.4	1.8
<u>1991-95 - ALL AGES</u>									
Percent Change (PC)	-3.4	3.5	-7.6	-0.7	4.4	-3.6	-15.3	-11.6	-18.9
Est. Annual PC (EAPC)	-0.5	1.6	-1.9	0.5	2.0	-0.5	-5.3	-4.7	-6.4

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.  
 SEER Program.  
 NCHS public use tape.  
 The EAPC is significantly different from zero ( $p < .05$ ).  
 The EAPC for 1991-95 is significantly different from the EAPC for 1975-79 ( $p < .05$ ).  
 The EAPC for 1991-95 is significantly different from the EAPC for 1975-79 ( $p < .10$ ).  
 † Statistic could not be calculated.

Table XXV-2  
THYROID CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	3.6	2.0	5.1	3.5	1.9	4.9	2.6	1.3	3.7
1974	4.0	2.5	5.4	3.8	2.4	5.2	2.8	1.4	4.0
1975	4.1	2.7	5.5	4.0	2.4	5.4	2.6	1.4	3.7
1976	4.1	2.5	5.7	4.0	2.5	5.6	2.9	1.2	4.3
1977	4.6	2.9	6.3	4.6	2.9	6.2	3.3	1.5	4.7
1978	4.3	2.6	6.0	4.2	2.5	5.9	2.5	1.4	3.4
1979	3.8	2.3	5.3	3.7	2.1	5.3	2.7	1.6	3.7
1980	3.7	2.0	5.3	3.7	1.9	5.3	2.0	1.0	2.9
1981	3.8	2.2	5.4	3.8	2.2	5.4	2.1	1.0	2.9
1982	4.0	2.5	5.3	3.9	2.4	5.3	2.8	1.7	3.7
1983	4.1	2.4	5.7	4.2	2.3	6.0	2.5	1.7	3.1
1984	4.2	2.3	6.0	4.1	2.2	5.9	2.6	1.6	3.5
1985	4.4	2.6	6.2	4.4	2.7	6.2	2.4	1.6	3.1
1986	4.6	2.6	6.5	4.5	2.7	6.4	2.8	1.1	4.3
1987	4.3	2.4	6.1	4.3	2.5	6.1	2.3	0.9	3.5
1988	4.3	2.5	6.0	4.2	2.6	5.9	2.2	1.5	2.8
1989	4.6	2.5	6.6	4.7	2.7	6.7	2.1	0.6	3.3
1990	4.7	2.5	6.9	4.8	2.5	7.1	3.1	1.9	4.1
1991	4.7	2.7	6.6	4.8	2.8	6.8	2.7	1.6	3.6
1992	5.1	3.1	7.1	5.1	3.0	7.2	3.7	2.8	4.4
1993	4.8	3.0	6.6	4.9	3.1	6.7	2.8	1.8	3.8
1994	5.3	2.8	7.7	5.3	2.9	7.8	3.2	1.6	4.6
1995	5.4	2.9	7.8	5.5	3.1	7.9	2.5	1.1	3.6
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	5.1	2.9	7.2	5.1	3.0	7.3	3.0	1.8	4.0
Under 65	4.6	2.4	6.8	4.7	2.5	7.0	2.5	1.4	3.5
65 and over	9.3	7.7	10.4	8.8	7.4	9.8	7.2	4.9	8.7
All ages (world std.) <sup>8</sup>	4.8	2.6	6.9	4.9	2.8	7.1	2.7	1.6	3.7
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.0	0.3
10-14	0.5	0.2	0.7	0.5	0.2	0.9	0.2	0.2	0.2
15-19	1.5	0.3	2.7	1.5	0.4	2.6	0.6	0.0	1.1
20-24	4.0	1.2	7.0	4.4	1.3	7.7	1.5	0.4	2.6
25-29	5.9	2.4	9.4	6.5	2.5	10.5	1.8	0.7	2.8
30-34	7.1	2.5	11.7	7.5	2.8	12.2	3.2	0.9	5.2
35-39	8.1	3.8	12.4	8.7	4.1	13.3	4.1	2.5	5.5
40-44	8.1	4.1	12.0	8.2	4.1	12.2	3.7	1.3	5.9
45-49	8.9	5.1	12.7	9.3	5.5	13.1	5.4	2.4	8.0
50-54	9.6	5.8	13.3	9.5	6.0	12.9	7.7	3.7	11.2
55-59	9.6	6.1	12.9	9.5	6.3	12.6	5.5	4.3	6.4
60-64	9.0	7.6	10.2	8.7	7.7	9.7	7.3	8.8	6.1
65-69	9.8	7.4	11.8	9.5	7.5	11.1	7.0	3.9	9.4
70-74	9.8	9.2	10.3	9.7	9.7	9.7	6.6	6.3	6.9
75-79	9.0	7.4	10.1	8.2	6.7	9.3	8.8	6.8	10.2
80-84	7.7	6.0	8.7	6.8	4.3	8.1	8.0	2.6	10.9
85+	7.5	6.6	7.9	7.1	4.8	8.0	4.3	3.6	4.6

<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XXV-3  
THYROID CANCER (Invasive)

U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\*, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1973	0.4	0.3	0.5	0.4	0.3	0.5	0.5	0.4	0.6
1974	0.4	0.3	0.5	0.4	0.3	0.5	0.5	0.3	0.5
1975	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3	0.5
1976	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.3	0.5
1977	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.6
1978	0.4	0.3	0.5	0.4	0.4	0.5	0.4	0.3	0.5
1979	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.5
1980	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.2	0.4
1981	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.2	0.5
1982	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.4
1983	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.4
1984	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.2	0.5
1985	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.5
1986	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.5
1987	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.5
1988	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
1989	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4
1990	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.2	0.4
1991	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.4
1992	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.4
1993	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.2	0.5
1994	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
1995	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.4
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DEATH:</u>									
All ages	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.4
Under 65	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
65 and over	2.3	1.9	2.5	2.2	1.9	2.4	2.3	1.6	2.6
All ages (world std.) <sup>N</sup>	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DEATH:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35-39	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40-44	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
45-49	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3
50-54	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.3
55-59	0.7	0.7	0.6	0.7	0.8	0.6	0.6	0.4	0.7
60-64	1.0	1.1	1.0	1.0	1.1	0.9	1.1	0.7	1.4
65-69	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.1	1.7
70-74	2.0	1.8	2.1	1.9	1.8	2.0	2.4	2.5	2.4
75-79	2.7	2.2	3.0	2.7	2.3	2.9	2.1	1.3	2.6
80-84	3.6	2.8	4.0	3.5	2.8	4.0	3.7	1.9	4.6
85+	4.8	2.9	5.5	4.9	3.0	5.5	3.8	1.3	4.8

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

<sup>N</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XXV-4  
THYROID CANCER (Invasive)

## SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1960-63 <sup>a</sup>	-	-	-	83	75	87	-	-	-
1970-73 <sup>a</sup>	-	-	-	86	82	87	-	-	-
1974-76 <sup>b</sup>	92.0	90.1	92.6	92.0	90.5	92.4	87.6	76.6↑	90.5
1977-79 <sup>b</sup>	92.4	89.7	93.3	92.2	90.3	92.9	91.5	-	96.6
1980-82 <sup>b</sup>	94.3	91.7	95.2	93.9	91.1	94.8	94.2	93.3↑	93.9
1983-85 <sup>b</sup>	93.5	90.3	94.6	93.4	89.5	94.5	91.8	92.8↑	90.8
1986-88 <sup>b</sup>	95.5	94.2	95.9	95.4	94.1	95.8	92.7	89.4↑	93.0
1989-94 <sup>b</sup>	95.3S	91.7	96.3S	95.8S	92.7	96.5S	88.2	81.2↑	90.2
1989-94 <sup>b</sup>									
ALL STAGES	95.3	91.7	96.3	95.8	92.7	96.5	88.2	81.2↑	90.2
LOCALIZED	99.6	99.0	99.8	99.7	99.2	99.9	96.5	95.0↑	97.0
REGIONAL	93.7	91.1	94.6	93.9	91.5	94.7	89.3	88.2↑	88.8
DISTANT	44.1	34.2↑	49.6	44.7	32.8↑	50.5↑	29.3↑	-	-
UNSTAGED	76.6	70.6↑	80.0	77.8	76.5↑	78.7	72.2↑	-	-
<b>STAGE DISTRIBUTION (%) 1989-94<sup>b</sup></b>									
ALL STAGES									
Number of cases	6,881	1,779	5,102	5,921	1,573	4,348	385	87	298
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	62	53	65	62	54	65	63	46	67
REGIONAL	29	36	27	29	35	27	22	32	19
DISTANT	5	6	4	4	6	3	8	-	-
UNSTAGED	4	5	4	4	5	4	7	-	-
<b>5-YR RELATIVE SURVIVAL RATES, 1989-94<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	99.5	98.3	99.8	99.5	98.6	99.8	97.4	87.3↑	98.9
45-54	97.5	94.2	98.3	97.9	94.9	98.6	92.8	-	93.1
55-64	90.9	85.5	92.8	91.5	86.9	93.5	79.5↑	-	82.1↑
65-74	86.0	77.3	90.0	87.1	80.4↑	89.8	79.4↑	-	81.5↑
75+	69.3	69.5↑	66.0↑	69.4	66.9↑	68.9↑	41.2↑	-	37.3↑
Under 65	97.9	94.7	98.7	98.1	95.4	98.7	93.8	83.8↑	95.9
65 and over	81.1	79.0	82.0	82.2	81.1	82.2	65.9↑	-	65.0↑

<sup>a</sup><sup>b</sup>

Rates are based on End Results data from a series of hospital registries and one population-based registry. Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1995.

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The difference in rates between 1974-76 and 1989-94 is statistically significant ( $p < .05$ ).

↑

The standard error of the survival rate is between 5 and 10 percentage points.

↑

The standard error of the survival rate is greater than 10 percentage points.

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Statistic could not be calculated.

Table XXV-5  
THYROID CANCER (Invasive)INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																				
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	4.1	4.1	4.6	4.3	3.8	3.7	3.8	4.0	4.1	4.2	4.4	4.6	4.3	4.3	4.6	4.7	4.7	5.1	4.8	5.3	5.4
Mortality																					
U.S.	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3
SEER	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3
Relative Survival Rates (SEER)																					
1-year	94.8	95.6	94.3	94.7	94.7	95.5	95.6	95.5	95.1	94.1	96.1	96.2	96.0	96.3	96.0	96.6	96.8	95.4	95.3	97.5	
2-year	93.2	94.6	93.0	93.9	93.2	94.9	95.5	94.6	94.8	93.9	95.0	95.6	95.9	95.8	95.5	96.3	96.3	94.7	95.2		
3-year	93.1	94.3	92.7	93.1	92.3	94.6	95.1	93.9	94.2	92.8	93.9	95.6	95.9	95.8	94.9	95.9	96.1	94.4			
4-year	92.9	93.8	92.6	92.9	92.3	94.1	95.0	93.8	94.2	92.6	93.8	95.4	95.9	95.5	94.5	95.9	95.9				
5-year	92.9	93.7	92.3	92.8	91.9	93.7	95.0	93.8	94.2	92.6	93.2	95.1	95.9	95.4	94.5	95.9					
6-year	92.4	93.7	92.3	92.5	91.9	93.7	94.9	93.8	94.2	92.6	93.2	94.9	95.7	95.4	94.5						
7-year	92.4	93.3	92.3	92.5	91.9	93.7	94.9	93.8	93.9	92.6	93.2	93.9	95.2	95.4							
8-year	92.4	93.3	92.1	92.2	91.9	93.7	94.9	93.8	93.7	92.6	93.2	93.8	95.2								
9-year	92.4	93.3	91.8	91.5	91.9	93.7	94.9	93.5	93.7	92.6	92.8	93.8									
10-year	92.4	93.3	91.8	91.5	91.9	93.7	94.2	93.1	93.7	92.6	92.7										
11-year	92.4	93.3	91.8	91.5	91.2	93.7	94.0	93.1	93.7	92.6											
12-year	92.4	93.3	91.8	91.5	90.5	93.7	93.5	93.1	93.7												
13-year	92.4	93.3	91.8	91.5	89.7	93.7	93.5	93.1													
14-year	92.4	93.3	91.8	91.5	89.6	93.7	93.5														
15-year	92.4	93.3	91.8	91.5	89.6	93.7															
16-year	92.4	93.3	91.8	91.5	89.6																
17-year	92.4	93.3	91.8	91.5																	
18-year	92.4	93.3	91.8																		
19-year	92.4	93.3																			
20-year	92.4																				

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XXV-6  
THYROID CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	2.7	2.5	2.9	2.6	2.3	2.0	2.2	2.5	2.4	2.3	2.6	2.6	2.4	2.5	2.5	2.5	2.7	3.1	3.0	2.8	2.9
Mortality																					
U.S.	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
SEER	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.4	0.3	0.4	0.4	0.3
Relative Survival Rates (SEER)																					
1-year	96.0	94.0	95.4	93.6	94.0	91.7	91.1	97.6	92.7	88.6	94.6	96.4	97.6	92.3	94.7	94.3	95.7	93.9	93.9	96.6	
2-year	93.8	93.3	92.3	92.2	92.8	90.5	91.1	97.4	92.1	88.4	94.2	94.4	97.6	91.7	93.7	93.3	93.2	92.9	93.0		
3-year	93.5	93.3	92.2	88.9	91.5	88.1	90.8	97.2	91.2	88.1	93.0	94.4	97.6	91.5	93.7	92.7	92.1	92.4			
4-year	93.3	92.1	91.6	88.4	90.7	88.0	89.5	96.5	91.2	87.3	92.6	94.4	97.6	90.0	91.4	92.7	92.1				
5-year	93.1	92.1	91.0	88.4	89.4	87.2	89.5	96.5	91.2	87.0	90.5	94.4	97.6	90.0	91.4	92.7					
6-year	92.4	92.1	89.5	88.0	89.4	87.2	88.7	96.5	91.2	87.0	90.4	94.0	97.2	90.0	91.4						
7-year	92.2	92.1	89.5	88.0	89.4	86.2	88.7	96.3	91.2	87.0	90.4	92.3	93.6	90.0							
8-year	92.0	92.1	89.0	88.0	89.4	86.2	88.7	96.0	91.2	87.0	89.9	92.3	93.6								
9-year	91.3	92.1	88.8	88.0	89.4	86.2	88.7	95.8	91.2	86.5	89.4	90.8									
10-year	91.3	92.1	88.6	88.0	89.4	86.2	88.7	95.0	91.2	86.5	89.4										
11-year	91.3	92.1	88.3	88.0	87.7	85.9	88.7	95.0	91.2	85.3											
12-year	91.3	92.1	88.3	88.0	86.8	85.9	86.8	95.0	91.2												
13-year	91.0	92.1	88.3	88.0	85.2	85.9	86.8	95.0													
14-year	90.4	92.1	88.3	88.0	84.2	85.9	86.4														
15-year	89.7	92.1	88.3	88.0	83.2	85.9															
16-year	89.7	92.1	88.3	88.0	82.0																
17-year	89.7	92.1	88.3	88.0																	
18-year	89.7	92.1	88.3																		
19-year	89.7	92.1																			
20-year	89.7																				

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 Survival rates are relative rates expressed as percents.

Table XXV-7  
THYROID CANCER (Invasive)INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	5.5	5.7	6.3	6.0	5.3	5.3	5.4	5.3	5.7	6.0	6.2	6.5	6.1	6.0	6.6	6.9	6.6	7.1	6.6	7.7	7.8
Mortality																					
U.S.	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3
SEER	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3
Relative Survival Rates (SEER)																					
1-year	94.3	96.2	93.9	95.1	94.9	96.7	97.1	94.7	95.9	95.8	96.6	96.1	95.4	97.6	96.5	97.3	97.2	96.0	95.9	97.8	
2-year	93.0	95.1	93.3	94.5	93.3	96.3	96.6	93.5	95.7	95.6	95.3	95.9	95.3	97.2	96.1	97.2	97.2	95.4	95.9		
3-year	92.9	94.4	92.9	94.5	92.6	96.3	96.5	92.6	95.2	94.3	94.2	95.7	95.1	97.2	95.2	96.8	97.2	95.1			
4-year	92.8	94.4	92.9	94.5	92.6	96.0	96.5	92.6	95.2	94.3	94.2	95.6	95.1	97.2	95.2	96.8	97.0				
5-year	92.8	93.7	92.8	94.3	92.6	95.6	96.5	92.6	94.9	94.3	94.2	95.4	95.1	96.9	95.2	96.8					
6-year	92.4	93.5	92.8	94.0	92.6	95.6	96.5	92.6	94.4	94.3	94.2	95.2	95.1	96.9	95.2						
7-year	92.4	92.5	92.8	94.0	92.6	95.6	96.5	92.6	93.9	94.3	94.2	94.4	95.1	96.9							
8-year	92.4	92.5	92.8	93.3	92.6	95.6	96.5	92.6	93.6	94.3	94.2	94.3	95.1								
9-year	92.4	92.5	92.8	92.5	92.6	95.6	96.5	92.6	93.6	94.3	94.0	94.3									
10-year	92.4	92.5	92.8	92.5	92.6	95.6	95.9	92.4	93.6	94.3	93.2										
11-year	92.4	92.5	92.8	92.5	92.3	95.6	95.7	92.4	93.6	94.3											
12-year	92.4	92.5	92.8	92.5	91.6	95.6	95.6	92.4	93.6												
13-year	92.4	92.5	92.8	92.5	91.1	95.6	95.6	92.4													
14-year	92.4	92.5	92.8	92.5	91.1	95.6	95.6														
15-year	92.4	92.5	92.8	92.5	91.1	95.6															
16-year	92.4	92.5	92.8	92.5	91.1																
17-year	92.4	92.5	92.8	92.5																	
18-year	92.4	92.5	92.8																		
19-year	92.4	92.5																			
20-year	92.4																				

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XXV-8  
THYROID CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,  
 Given Cancer Free At Current Age By Race and Sex

Lifetime Risk (Percent) of Being Diagnosed With Cancer and  
 Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1993-95

All Races

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.00	0.02	0.27	0.00	0.02	0.10	0.68	
10	0.00	0.02	0.05	0.27	0.02	0.10	0.23	0.69	
20	0.02	0.04	0.09	0.27	0.08	0.21	0.33	0.67	
30	0.03	0.07	0.13	0.25	0.13	0.25	0.38	0.59	
40	0.05	0.10	0.16	0.23	0.13	0.26	0.35	0.47	
50	0.06	0.12	0.17	0.20	0.13	0.23	0.30	0.35	
60	0.06	0.12	0.14	0.15	0.10	0.18	0.22	0.23	
Lifetime Risk of Being Diagnosed =				0.27%	Lifetime Risk of Being Diagnosed =				0.68%
Lifetime Risk of Dying =				0.04%	Lifetime Risk of Dying =				0.06%

Whites

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.00	0.02	0.28	0.00	0.02	0.11	0.69	
10	0.00	0.02	0.05	0.28	0.02	0.11	0.24	0.70	
20	0.02	0.05	0.09	0.28	0.09	0.23	0.35	0.68	
30	0.03	0.08	0.14	0.26	0.14	0.26	0.39	0.59	
40	0.05	0.11	0.17	0.24	0.13	0.26	0.35	0.46	
50	0.06	0.13	0.18	0.20	0.13	0.22	0.29	0.34	
60	0.07	0.12	0.14	0.14	0.10	0.17	0.21	0.22	
Lifetime Risk of Being Diagnosed =				0.28%	Lifetime Risk of Being Diagnosed =				0.69%
Lifetime Risk of Dying =				0.05%	Lifetime Risk of Dying =				0.06%

Blacks

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.00	0.01	0.11	0.00	0.01	0.04	0.35	
10	0.00	0.01	0.02	0.11	0.01	0.04	0.09	0.36	
20	0.01	0.02	0.04	0.11	0.03	0.08	0.14	0.35	
30	0.01	0.03	0.06	0.11	0.05	0.12	0.20	0.33	
40	0.02	0.05	0.07	0.10	0.07	0.15	0.20	0.28	
50	0.03	0.06	0.09	0.09	0.08	0.14	0.20	0.22	
60	0.04	0.07	0.07	0.07	0.06	0.13	0.15	0.15	
Lifetime Risk of Being Diagnosed =				0.11%	Lifetime Risk of Being Diagnosed =				0.35%
Lifetime Risk of Dying =				0.01%	Lifetime Risk of Dying =				0.03%



Table XXV-9  
 THYROID CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE AND U.S. MORTALITY RATES

By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1990-1995 Rate per 100,000 persons			Trend 1990-1995 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	4.9	2.8	7.0	2.7★	1.8
White	5.0	2.8	7.1	2.5★	2.1	2.8★
White Hispanic	4.7	2.2	7.3	0.4	-7.8	2.9
White Non-Hispanic	5.1	3.0	7.2	2.9★	3.4	2.8
Black	2.8	1.7	3.8	0.6	-4.6	2.3
Asian/Pacific Islander <sup>‡</sup>	6.4	3.0	9.5	3.2	1.6	3.6
American Indian	-	-	-	-	-	-
Hispanic <sup>⊗</sup>	4.4	2.0	6.8	0.4	-7.7	2.8

Mortality<sup>❖</sup>

RACE/ETHNICITY	Rate 1990-1995 Rate per 100,000 persons			Trend 1990-1995 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	0.3	0.3	0.4	-0.1	2.0
White	0.3	0.3	0.4	0.4	2.1	-0.8
White Hispanic	0.4	0.3	0.5	4.3	5.0	4.2
White Non-Hispanic	0.3	0.3	0.3	0.0	1.9	-1.4
Black	0.3	0.2	0.4	-3.8	-2.7	-4.8
Asian/Pacific Islander <sup>‡</sup>	0.6	-	0.7	-7.8	-	-11.6
American Indian	-	-	-	-	-	-
Hispanic <sup>⊗</sup>	0.4	0.3	0.5	4.7	5.9	4.3

- The EAPC is the Estimated Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 10 cases per year within the time interval.
- <sup>i</sup> Incidence data are from the 11 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, and Los Angeles). Unless specified, other tables use data from 9 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- <sup>⊗</sup> Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians. For incidence, all 11 SEER areas are included. For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
- <sup>❖</sup> Mortality data are analyzed from a public-use file provided by the National Center for Health Statistics (NCHS).
- <sup>‡</sup> Population estimates for the Asian Pacific Islanders rates are adjusted Census Bureau estimates. The population estimates used in Wingo PA, Ries LAG, Rosenberg HM, Miller DS, Edwards BK. Cancer Incidence and mortality, 1973-1995. Cancer 82:1197-207, 1998 were unadjusted.
- <sup>★</sup> The EAPC is significantly different from zero (p<.05).

Table XXV-10  
THYROID CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER MORTALITY RATES\*  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1991-95</u>									
REGISTRY									
11 registries	5.0	2.8	7.1	5.0	2.9	7.2	2.9	1.7	3.9
9 registries	5.1	2.9	7.2	5.1	3.0	7.3	3.0	1.8	4.0
San Francisco-Oakland	5.1	2.9	7.2	5.2	3.2	7.4	2.5	1.8	3.2
Connecticut	4.5	2.6	6.2	4.6	2.7	6.4	2.9	1.8	3.8
Metropolitan Detroit	4.8	2.8	6.7	5.2	3.0	7.2	3.2	1.5	4.5
Hawaii	7.1	3.9	10.4	5.9	5.0	7.2	-	-	-
Iowa	5.4	2.9	7.8	5.4	2.9	7.8	-	-	-
New Mexico	5.4	2.7	8.0	5.6	2.8	8.3	-	-	-
Seattle-Puget Sound	4.8	2.7	7.0	4.8	2.7	6.9	2.6	2.3	3.1
Utah	5.9	3.5	8.2	6.0	3.5	8.3	-	-	-
Metropolitan Atlanta	4.5	2.9	6.0	5.0	3.1	7.0	3.3	2.3	4.1
San Jose-Monterey	5.0	2.6	7.5	4.6	2.6	6.7	2.6	1.4	3.9
Los Angeles	4.8	2.7	6.8	4.9	2.8	7.0	2.6	1.5	3.5
<u>SEER MORTALITY RATES*, 1991-95</u>									
REGISTRY									
11 registries	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.4
9 registries	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.4
San Francisco-Oakland	0.4	0.4	0.4	0.4	0.5	0.4	0.1	0.0	0.2
Connecticut	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.5
Metropolitan Detroit	0.3	0.4	0.2	0.3	0.5	0.2	0.3	0.2	0.4
Hawaii	0.7	0.5	0.8	0.5	0.7	0.2	-	-	-
Iowa	0.3	0.2	0.3	0.3	0.2	0.3	-	-	-
New Mexico	0.4	0.4	0.4	0.5	0.4	0.5	-	-	-
Seattle-Puget Sound	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.4
Utah	0.3	0.3	0.3	0.3	0.3	0.3	-	-	-
Metropolitan Atlanta	0.4	0.5	0.4	0.3	0.4	0.3	0.7	0.7	0.7
San Jose-Monterey	0.3	0.3	0.3	0.3	0.2	0.3	0.0	0.0	0.0
Los Angeles	0.4	0.3	0.5	0.4	0.3	0.5	0.3	0.1	0.5

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.  
 § SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 \* NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 - Statistic could not be calculated or populations are inadequate.

Table XXV-11  
THYROID CANCER (Invasive)

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	0.3	0.00		
High Five States				
Hawaii	0.7⊕	0.10	(01)	133.3
North Dakota	0.5⊕	0.12	(02)	66.7
Alaska	0.5⊕	0.20	(03)	66.7
New Jersey	0.4⊕	0.03	(04)	33.3
New Mexico	0.4⊕	0.07	(05)	33.3
Low Five States				
New Hampshire	0.3	0.06	(47)	0.0
Montana	0.2⊕	0.07	(48)	-33.3
Alabama	0.2⊕	0.03	(49)	-33.3
Idaho	0.2⊕	0.06	(50)	-33.3
Vermont	0.1⊕	0.07	(51)	-66.7

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.2⊕	0.03	(49)	-33.3	Montana	0.2⊕	0.07	(48)	-33.3
Alaska	0.5⊕	0.20	(03)	66.7	Nebraska	0.3	0.06	(41)	0.0
Arizona	0.4⊕	0.04	(07)	33.3	Nevada	0.3	0.06	(32)	0.0
Arkansas	0.3	0.04	(42)	0.0	New Hampshire	0.3	0.06	(47)	0.0
California	0.4⊕	0.02	(12)	33.3	New Jersey	0.4⊕	0.03	(04)	33.3
Colorado	0.3	0.04	(34)	0.0	New Mexico	0.4⊕	0.07	(05)	33.3
Connecticut	0.4⊕	0.04	(09)	33.3	New York	0.4⊕	0.02	(08)	33.3
Delaware	0.3	0.09	(24)	0.0	North Carolina	0.3	0.03	(27)	0.0
District of Columbia	0.4⊕	0.11	(10)	33.3	North Dakota	0.5⊕	0.12	(02)	66.7
Florida	0.3	0.02	(28)	0.0	Ohio	0.3	0.02	(25)	0.0
Georgia	0.3	0.03	(45)	0.0	Oklahoma	0.3	0.04	(29)	0.0
Hawaii	0.7⊕	0.10	(01)	133.3	Oregon	0.3	0.04	(21)	0.0
Idaho	0.2⊕	0.06	(50)	-33.3	Pennsylvania	0.4⊕	0.02	(11)	33.3
Illinois	0.4⊕	0.02	(15)	33.3	Rhode Island	0.3	0.07	(40)	0.0
Indiana	0.3	0.03	(38)	0.0	South Carolina	0.3	0.04	(43)	0.0
Iowa	0.3	0.04	(46)	0.0	South Dakota	0.4⊕	0.10	(06)	33.3
Kansas	0.3	0.05	(26)	0.0	Tennessee	0.4⊕	0.03	(14)	33.3
Kentucky	0.3	0.04	(33)	0.0	Texas	0.4⊕	0.02	(19)	33.3
Louisiana	0.3	0.04	(35)	0.0	Utah	0.3	0.06	(36)	0.0
Maine	0.3	0.06	(44)	0.0	Vermont	0.1⊕	0.07	(51)	-66.7
Maryland	0.3	0.03	(37)	0.0	Virginia	0.3	0.03	(20)	0.0
Massachusetts	0.3	0.03	(22)	0.0	Washington	0.3	0.03	(23)	0.0
Michigan	0.3	0.02	(30)	0.0	West Virginia	0.4⊕	0.05	(17)	33.3
Minnesota	0.4⊕	0.04	(16)	33.3	Wisconsin	0.4⊕	0.03	(18)	33.3
Mississippi	0.3	0.04	(39)	0.0	Wyoming	0.4⊕	0.13	(13)	33.3
Missouri	0.3	0.03	(31)	0.0					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
⊕ Absolute difference between state rate and total U.S. rate is 15% or more.  
⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XXV-12  
THYROID CANCER (Invasive)

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	0.3	0.01		
High Five States				
Hawaii	0.5⊛	0.13	(01)	66.7
South Dakota	0.4⊛	0.15	(02)	33.3
New Jersey	0.4⊛	0.05	(03)	33.3
New Mexico	0.4⊛	0.10	(04)	33.3
Connecticut	0.4⊛	0.07	(05)	33.3
Low Five States				
Rhode Island	0.2⊛	0.09	(47)	-33.3
Alaska	0.2⊛	0.13	(48)	-33.3
Maine	0.2⊛	0.08	(49)	-33.3
Idaho	0.2⊛	0.08	(50)	-33.3
Vermont	0.1⊛	0.09	(51)	-66.7

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.3	0.05	(38)	0.0	Montana	0.3	0.11	(40)	0.0
Alaska	0.2⊛	0.13	(48)	-33.3	Nebraska	0.4⊛	0.09	(15)	33.3
Arizona	0.3	0.06	(17)	0.0	Nevada	0.4⊛	0.10	(10)	33.3
Arkansas	0.3	0.07	(22)	0.0	New Hampshire	0.2⊛	0.09	(45)	-33.3
California	0.3	0.02	(24)	0.0	New Jersey	0.4⊛	0.05	(03)	33.3
Colorado	0.3	0.06	(41)	0.0	New Mexico	0.4⊛	0.10	(04)	33.3
Connecticut	0.4⊛	0.07	(05)	33.3	New York	0.4⊛	0.03	(14)	33.3
Delaware	0.2⊛	0.11	(46)	-33.3	North Carolina	0.2⊛	0.04	(44)	-33.3
District of Columbia	0.3	0.14	(29)	0.0	North Dakota	0.4⊛	0.14	(12)	33.3
Florida	0.3	0.03	(19)	0.0	Ohio	0.3	0.03	(36)	0.0
Georgia	0.3	0.05	(27)	0.0	Oklahoma	0.3	0.06	(31)	0.0
Hawaii	0.5⊛	0.13	(01)	66.7	Oregon	0.3	0.06	(34)	0.0
Idaho	0.2⊛	0.08	(50)	-33.3	Pennsylvania	0.4⊛	0.03	(06)	33.3
Illinois	0.3	0.03	(23)	0.0	Rhode Island	0.2⊛	0.09	(47)	-33.3
Indiana	0.3	0.05	(35)	0.0	South Carolina	0.4⊛	0.07	(16)	33.3
Iowa	0.2⊛	0.06	(43)	-33.3	South Dakota	0.4⊛	0.15	(02)	33.3
Kansas	0.3	0.07	(18)	0.0	Tennessee	0.4⊛	0.05	(09)	33.3
Kentucky	0.3	0.06	(30)	0.0	Texas	0.3	0.03	(20)	0.0
Louisiana	0.3	0.05	(39)	0.0	Utah	0.3	0.09	(32)	0.0
Maine	0.2⊛	0.08	(49)	-33.3	Vermont	0.1⊛	0.09	(51)	-66.7
Maryland	0.3	0.05	(42)	0.0	Virginia	0.3	0.04	(28)	0.0
Massachusetts	0.4⊛	0.05	(07)	33.3	Washington	0.3	0.05	(21)	0.0
Michigan	0.3	0.04	(33)	0.0	West Virginia	0.3	0.07	(26)	0.0
Minnesota	0.4⊛	0.06	(11)	33.3	Wisconsin	0.4⊛	0.05	(13)	33.3
Mississippi	0.3	0.07	(37)	0.0	Wyoming	0.4⊛	0.19	(08)	33.3
Missouri	0.3	0.05	(25)	0.0					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
⊛ Absolute difference between state rate and total U.S. rate is 15% or more.  
⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XXV-13  
THYROID CANCER (Invasive)

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	0.4	0.01		
High Five States				
Hawaii	0.8*	0.16	(01)	100.0
North Dakota	0.7*	0.19	(02)	75.0
Alaska	0.6*	0.31	(03)	50.0
District of Columbia	0.5*	0.16	(04)	25.0
Arizona	0.5*	0.06	(05)	25.0
Low Five States				
Nevada	0.2*	0.08	(47)	-50.0
Nebraska	0.2*	0.07	(48)	-50.0
South Carolina	0.2*	0.04	(49)	-50.0
Alabama	0.2*	0.04	(50)	-50.0
Vermont	0.2*	0.10	(51)	-50.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.2*	0.04	(50)	-50.0	Montana	0.2*	0.09	(46)	-50.0
Alaska	0.6*	0.31	(03)	50.0	Nebraska	0.2*	0.07	(48)	-50.0
Arizona	0.5*	0.06	(05)	25.0	Nevada	0.2*	0.08	(47)	-50.0
Arkansas	0.2*	0.05	(45)	-50.0	New Hampshire	0.3*	0.09	(43)	-25.0
California	0.4	0.02	(09)	0.0	New Jersey	0.4	0.04	(07)	0.0
Colorado	0.3*	0.06	(31)	-25.0	New Mexico	0.4	0.10	(06)	0.0
Connecticut	0.4	0.06	(13)	0.0	New York	0.4	0.03	(08)	0.0
Delaware	0.4	0.13	(14)	0.0	North Carolina	0.4	0.04	(17)	0.0
District of Columbia	0.5*	0.16	(04)	25.0	North Dakota	0.7*	0.19	(02)	75.0
Florida	0.3*	0.02	(34)	-25.0	Ohio	0.4	0.03	(22)	0.0
Georgia	0.3*	0.04	(44)	-25.0	Oklahoma	0.3*	0.06	(25)	-25.0
Hawaii	0.8*	0.16	(01)	100.0	Oregon	0.4	0.06	(18)	0.0
Idaho	0.3*	0.10	(39)	-25.0	Pennsylvania	0.4	0.03	(16)	0.0
Illinois	0.4	0.03	(12)	0.0	Rhode Island	0.3*	0.10	(27)	-25.0
Indiana	0.3*	0.04	(42)	-25.0	South Carolina	0.2*	0.04	(49)	-50.0
Iowa	0.3*	0.06	(41)	-25.0	South Dakota	0.4	0.13	(10)	0.0
Kansas	0.3*	0.06	(32)	-25.0	Tennessee	0.4	0.04	(19)	0.0
Kentucky	0.3*	0.05	(37)	-25.0	Texas	0.4	0.03	(20)	0.0
Louisiana	0.3*	0.05	(30)	-25.0	Utah	0.3*	0.08	(35)	-25.0
Maine	0.3*	0.09	(24)	-25.0	Vermont	0.2*	0.10	(51)	-50.0
Maryland	0.3*	0.05	(29)	-25.0	Virginia	0.4	0.04	(15)	0.0
Massachusetts	0.3*	0.04	(38)	-25.0	Washington	0.3*	0.04	(28)	-25.0
Michigan	0.3*	0.03	(33)	-25.0	West Virginia	0.4	0.08	(11)	0.0
Minnesota	0.4	0.05	(21)	0.0	Wisconsin	0.4	0.04	(23)	0.0
Mississippi	0.3*	0.06	(40)	-25.0	Wyoming	0.3*	0.16	(26)	-25.0
Missouri	0.3*	0.04	(36)	-25.0					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.  
\* Absolute difference between state rate and total U.S. rate is 15% or more.  
⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

# SEER Incidence and U.S. Mortality Thyroid, Male By Race

## White

## Black

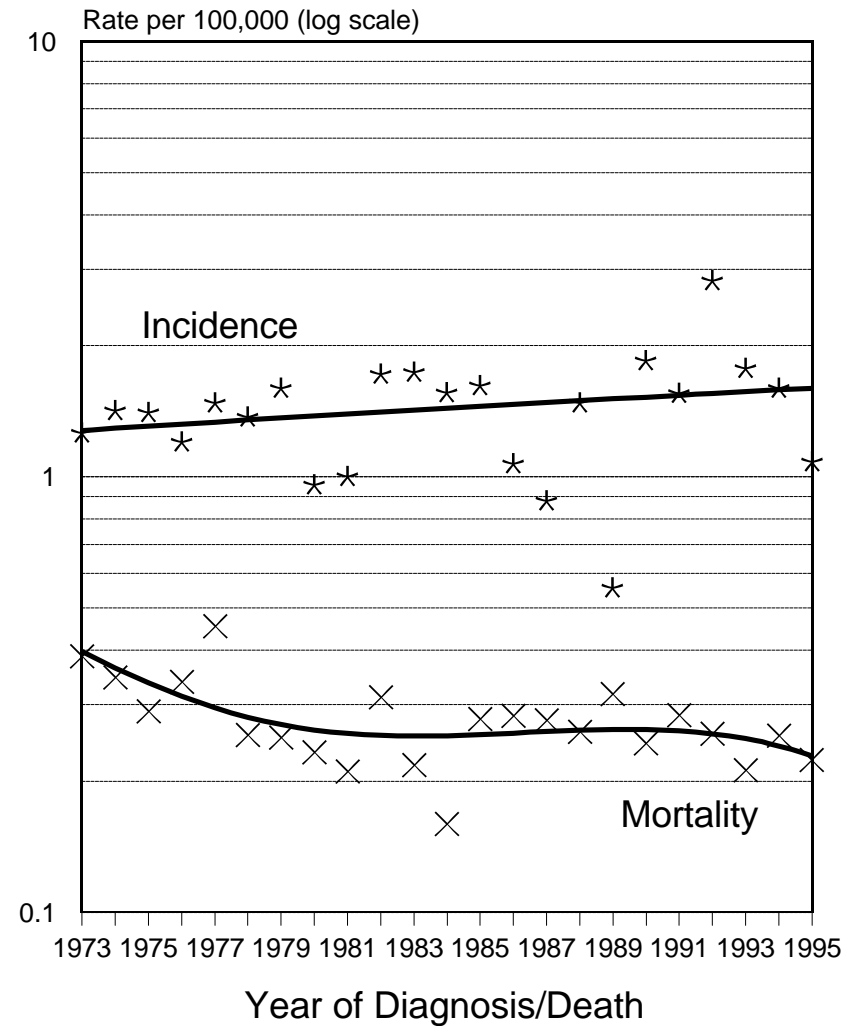
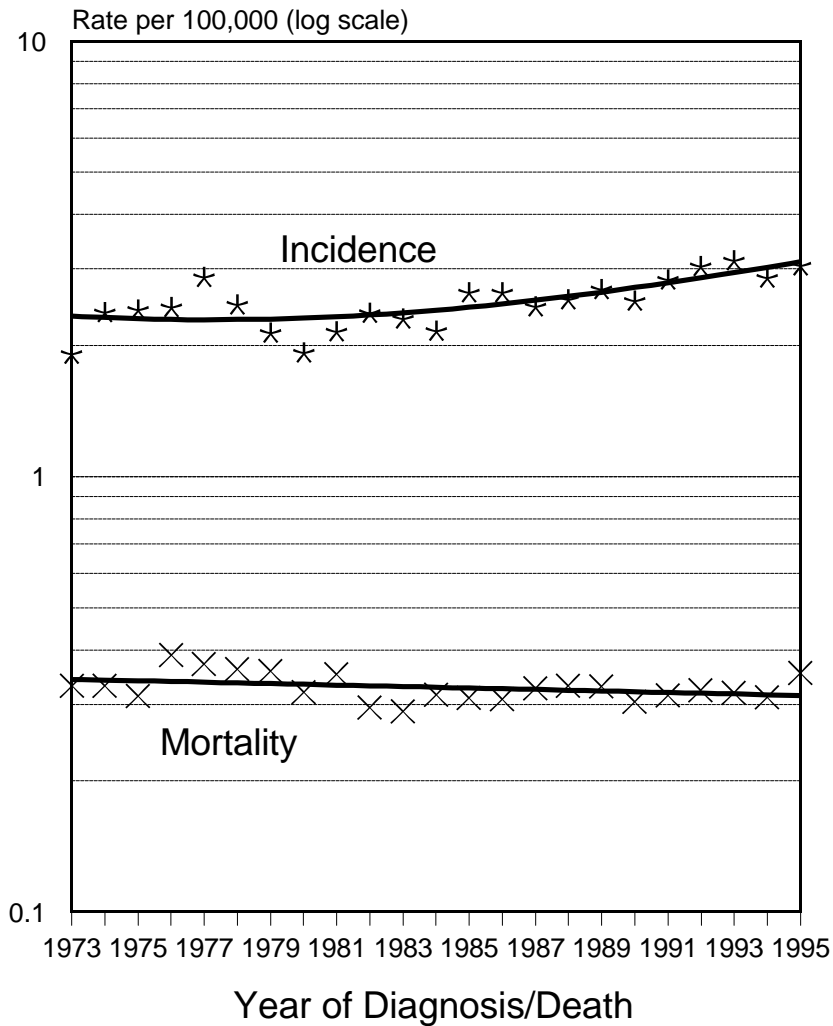


Figure XXV-1

# SEER Incidence and U.S. Mortality Thyroid, Female By Race

## White

## Black

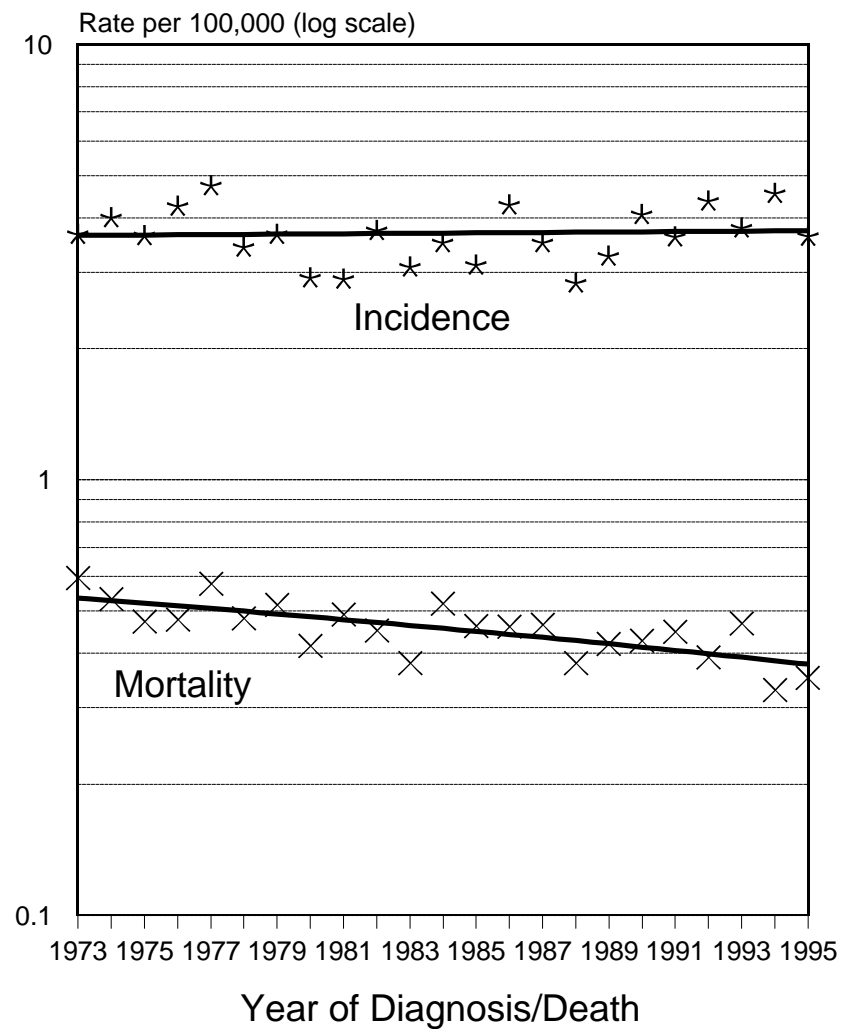
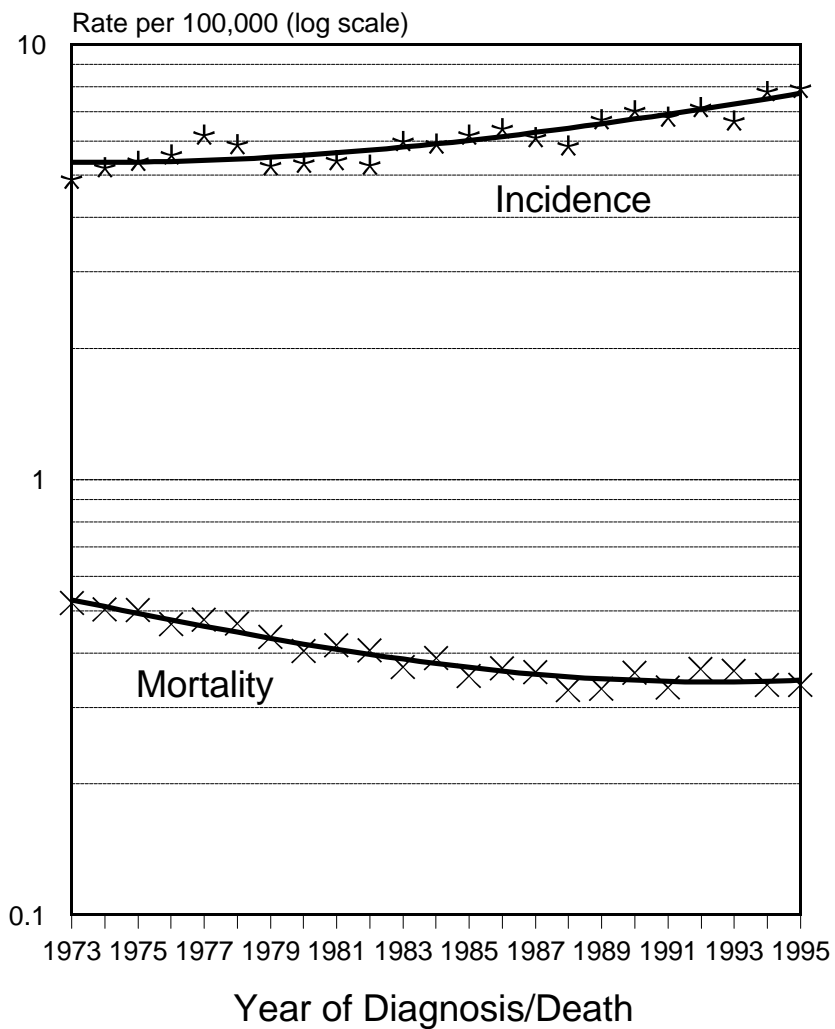


Figure XXV-2