

Table XVIII-1
NON-HODGKIN'S LYMPHOMAS

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>1973-94</u>									
All Ages									
Percent Change (PC)	80.6	90.5	66.7	79.9	88.1	66.7	80.0	102.7	51.1
Est. Annual PC (EAPC)	3.2★	3.6★	2.6★	3.2★	3.6★	2.6★	3.9★	4.2★	3.4★
Under 65									
Percent Change (PC)	85.5	107.8	56.5	80.4	101.5	51.5	175.9	225.5	106.8
Est. Annual PC (EAPC)	3.4★	4.1★	2.3★	3.3★	4.0★	2.2★	5.1★	5.8★	4.1★
65 and over									
Percent Change (PC)	75.4	72.7	77.4	79.4	74.1	82.9	1.6	-0.5	8.8
Est. Annual PC (EAPC)	3.0★	3.1★	3.0★	3.1★	3.2★	3.1★	2.2★	2.0★	2.7★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	8.3	8.9	7.6	7.9	8.1	7.7	25.0	36.9	12.9
Est. Annual PC (EAPC)	2.7★	2.5	3.0	2.5	2.1	2.9	7.5	10.4	4.8
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	2.2	1.0	4.2	0.7	-0.8	2.6	-0.5	9.1	-14.6
Est. Annual PC (EAPC)	0.9◇	0.6	1.3	0.4◇	0.0	0.9	0.1◆	3.7	-5.5★◆
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-94</u>									
All Ages									
Percent Change (PC)	39.9	40.5	40.0	40.7	41.4	40.2	42.5	35.0	56.3
Est. Annual PC (EAPC)	1.9★	2.0★	1.8★	2.0★	2.1★	1.9★	2.2★	2.1★	2.4★
Under 65									
Percent Change (PC)	13.3	17.4	6.8	12.9	17.5	5.4	35.7	32.0	43.8
Est. Annual PC (EAPC)	0.8★	1.1★	0.4★	0.8★	1.1★	0.3★	1.8★	1.9★	1.6★
65 and over									
Percent Change (PC)	63.0	60.7	66.7	64.5	61.7	68.1	50.6	38.7	69.4
Est. Annual PC (EAPC)	2.8★	2.7★	2.8★	2.8★	2.8★	2.8★	2.7★	2.4★	3.2★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	3.9	5.3	2.8	4.0	5.4	3.0	2.3	3.7	1.1
Est. Annual PC (EAPC)	1.2★	1.5	1.0	1.3★	1.6	1.0	0.1	0.0	0.2
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	5.3	3.6	7.4	5.6	3.7	8.0	1.6	0.4	2.9
Est. Annual PC (EAPC)	2.0★	1.4	2.7★◇	2.1★	1.5	2.9★◇	0.6	-0.2	1.5

§ 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 1990-94 is significantly different from the EAPC for 1975-79 (p<.05).

◇ The EAPC for 1990-94 is significantly different from the EAPC for 1975-79 (p<.10).

- Statistic could not be calculated.

Table XVIII-2
NON-HODGKIN'S LYMPHOMAS

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	8.5	10.0	7.4	8.8	10.3	7.5	7.0	8.8	5.5
1974	8.9	10.4	7.7	9.2	10.7	8.0	5.9	7.5	4.6
1975	9.3	11.0	8.0	9.8	11.4	8.4	5.6	7.0	4.2
1976	9.5	10.7	8.5	9.8	11.0	8.9	5.3	6.5	4.4
1977	9.3	10.8	8.2	9.7	11.3	8.5	5.6	6.2	5.1
1978	10.0	11.8	8.4	10.4	12.3	8.9	6.2	8.3	4.3
1979	10.4	11.8	9.3	10.8	12.1	9.7	7.4	10.1	5.4
1980	10.5	12.4	8.9	10.8	12.6	9.2	7.4	9.3	6.0
1981	11.2	13.2	9.7	11.6	13.5	10.1	6.4	9.1	4.3
1982	11.2	13.0	9.6	11.7	13.7	10.0	8.5	8.7	8.1
1983	11.6	13.8	9.8	12.1	14.5	10.2	8.8	9.7	7.9
1984	12.6	15.1	10.6	13.2	15.6	11.2	8.3	11.2	5.9
1985	12.9	15.2	10.9	13.5	15.9	11.4	8.3	10.0	7.1
1986	13.1	15.9	10.7	13.8	16.8	11.2	8.8	10.8	7.0
1987	13.9	17.3	11.0	14.7	18.4	11.5	8.8	9.3	8.1
1988	14.2	17.4	11.6	14.9	18.2	12.2	9.9	13.5	7.2
1989	14.3	17.7	11.4	15.1	18.7	12.0	9.6	11.7	7.9
1990	15.3	18.8	12.3	15.9	19.5	12.8	11.5	14.3	9.3
1991	15.5	19.6	11.9	16.2	20.4	12.4	11.8	15.9	8.5
1992	15.3	18.9	12.2	15.9	19.5	12.7	11.3	15.2	8.3
1993	15.5	19.2	12.3	15.9	19.7	12.6	11.4	15.6	8.0
1994	16.0	19.6	12.8	16.4	19.8	13.3	11.8	17.4	7.3
<u>AGE-ADJUSTED RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	15.5	19.2	12.3	16.0	19.8	12.8	11.6	15.7	8.3
Under 65	9.2	11.8	6.6	9.4	12.0	6.7	8.5	12.2	5.4
65 and over	73.5	86.9	64.6	76.8	90.3	67.9	39.7	48.1	34.7
All ages (world std.) ⁸	12.9	16.1	10.0	13.3	16.6	10.3	10.2	14.0	7.1
<u>AGE-SPECIFIC RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.6	0.9	0.4	0.6	0.9	0.4	0.6	0.9	0.3
5-9	0.8	1.1	0.4	0.8	1.2	0.5	0.4	0.9	0.0
10-14	1.1	1.6	0.6	1.1	1.6	0.6	1.2	1.4	0.9
15-19	1.6	2.0	1.2	1.7	2.2	1.2	1.0	1.5	0.6
20-24	2.4	2.8	1.9	2.3	2.7	1.9	3.4	3.8	3.1
25-29	5.1	7.3	3.0	4.9	7.2	2.7	6.3	8.4	4.5
30-34	7.5	12.0	3.1	7.6	12.1	3.1	9.0	15.3	3.4
35-39	10.5	16.1	5.0	10.8	16.4	5.0	12.0	20.2	4.8
40-44	12.6	18.0	7.4	12.8	18.1	7.5	14.9	23.6	7.4
45-49	17.9	24.1	11.8	18.2	24.1	12.3	19.8	32.6	8.7
50-54	23.9	30.1	17.9	24.6	30.7	18.6	21.2	27.2	16.0
55-59	30.7	35.9	25.8	32.0	37.1	27.2	21.6	31.2	13.9
60-64	40.5	46.3	35.3	41.8	47.8	36.3	29.1	31.8	27.0
65-69	55.9	64.0	49.2	59.1	67.7	51.9	29.8	31.5	28.5
70-74	72.1	82.7	64.0	75.1	85.1	67.4	47.0	52.4	43.3
75-79	90.2	106.5	79.1	94.2	111.1	83.0	48.3	65.6	37.7
80-84	93.0	115.8	80.4	96.4	118.7	84.3	39.6	58.6	29.5
85+	88.3	114.1	78.3	90.9	117.9	80.8	37.2	48.8	32.2

[§] SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

⁸ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XVIII-3
NON-HODGKIN'S LYMPHOMAS

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	4.7	5.8	3.9	4.9	6.0	4.1	3.2	4.3	2.3
1974	4.8	5.9	4.0	5.0	6.1	4.1	3.3	4.4	2.4
1975	4.7	5.7	3.8	4.8	5.9	3.9	3.2	4.2	2.5
1976	4.7	5.7	3.9	4.9	5.9	4.1	3.0	3.9	2.3
1977	4.8	5.7	4.0	4.9	5.9	4.1	3.3	4.2	2.6
1978	4.9	6.0	4.0	5.0	6.2	4.2	3.3	4.5	2.4
1979	4.9	6.0	4.0	5.1	6.3	4.1	3.1	3.9	2.5
1980	5.1	6.1	4.2	5.3	6.3	4.4	3.3	4.3	2.5
1981	5.0	6.0	4.2	5.2	6.2	4.4	3.3	4.1	2.7
1982	5.3	6.4	4.4	5.5	6.7	4.6	3.4	4.4	2.7
1983	5.4	6.6	4.5	5.6	6.8	4.7	3.6	4.8	2.7
1984	5.4	6.5	4.6	5.7	6.8	4.8	3.5	4.4	2.8
1985	5.7	7.0	4.6	5.9	7.3	4.8	3.8	4.7	3.1
1986	5.9	7.2	4.8	6.1	7.4	5.0	4.1	5.5	3.0
1987	5.8	7.0	4.8	6.0	7.3	5.0	3.9	5.1	3.0
1988	6.0	7.4	4.9	6.2	7.6	5.1	4.1	5.5	3.0
1989	6.2	7.7	5.1	6.4	7.9	5.3	4.4	5.8	3.3
1990	6.2	7.9	5.0	6.5	8.2	5.2	4.4	5.9	3.4
1991	6.5	8.0	5.3	6.7	8.3	5.5	4.7	5.9	3.7
1992	6.5	8.1	5.3	6.8	8.4	5.5	4.6	5.9	3.6
1993	6.5	8.1	5.4	6.8	8.2	5.6	4.7	6.1	3.6
1994	6.9	8.5	5.6	7.2	8.8	5.9	4.6	5.7	3.7
<u>AGE-ADJUSTED RATES, 1990-94</u>									
<u>AGE AT DEATH:</u>									
All ages	6.5	8.1	5.3	6.8	8.4	5.5	4.6	5.9	3.6
Under 65	2.8	3.6	2.0	2.8	3.6	2.1	2.6	3.5	1.9
65 and over	40.9	49.5	35.4	42.9	51.8	37.2	22.8	27.7	19.7
All ages (world std.)N	5.0	6.3	4.0	5.2	6.5	4.2	3.8	4.9	2.9
<u>AGE-SPECIFIC RATES, 1990-94</u>									
<u>AGE AT DEATH:</u>									
0-4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
5-9	0.1	0.2	0.1	0.2	0.3	0.1	0.1	0.2	0.1
10-14	0.2	0.3	0.1	0.2	0.3	0.1	0.1	0.2	0.1
15-19	0.4	0.5	0.3	0.4	0.5	0.2	0.3	0.4	0.3
20-24	0.6	0.8	0.4	0.6	0.7	0.4	0.8	1.1	0.5
25-29	1.0	1.3	0.6	1.0	1.3	0.6	1.1	1.6	0.7
30-34	1.5	2.2	0.8	1.5	2.1	0.8	2.1	3.2	1.1
35-39	2.1	3.1	1.2	2.1	3.0	1.2	2.6	3.8	1.6
40-44	2.9	4.1	1.7	2.9	4.1	1.7	3.6	5.0	2.3
45-49	4.7	6.3	3.2	4.8	6.3	3.3	5.0	7.1	3.3
50-54	7.1	9.1	5.2	7.3	9.3	5.3	6.6	9.1	4.6
55-59	11.1	13.8	8.6	11.5	14.3	8.8	9.8	12.1	8.0
60-64	17.1	20.8	13.8	17.8	21.5	14.5	12.7	16.7	9.7
65-69	25.3	30.1	21.4	26.5	31.3	22.5	16.7	21.4	13.2
70-74	37.1	43.6	32.1	38.9	45.6	33.8	20.9	24.5	18.5
75-79	49.6	59.7	43.0	52.0	62.4	45.1	26.2	31.2	23.3
80-84	64.3	78.6	56.5	67.0	82.1	58.9	33.9	40.3	30.6
85+	69.8	91.1	61.6	73.1	95.8	64.5	32.3	39.8	29.2

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

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

Table XVIII-4
NON-HODGKIN'S LYMPHOMAS

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

	<u>All Races</u>			<u>Whites</u>			<u>Blacks</u>		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	31	31	31	-	-	-
1970-73 ^a	-	-	-	41	39	43	-	-	-
1974-76 ^b	47.1	46.9	47.3	47.5	47.7	47.3	48.4	43.4↑	54.7↑
1977-79 ^b	48.3	45.8	50.8	48.5	46.3	50.7	51.1	44.8	59.3↑
1980-82 ^b	51.3	50.2	52.5	51.8	50.9	52.8	50.5	47.9	53.6
1983-85 ^b	54.1	53.2	55.1	54.7	53.9	55.5	45.1	43.6	46.9
1986-93 ^b	51.3 S	47.7	55.9 S	52.2 S	48.7	56.6 S	43.7	40.0	49.0
<u>5-YR RELATIVE SURVIVAL RATES, 1986-93^b</u>									
AGE AT DIAGNOSIS:									
<45	49.8	42.0	69.1	51.1	42.9	71.7	39.9	36.3	49.1
45-54	59.3	54.6	67.5	60.5	56.2	67.8	48.3	38.8	66.1↑
55-64	58.3	54.7	62.6	58.9	55.2	63.5	57.4	56.5↑	58.1↑
65-74	51.3	48.7	53.7	52.4	49.5	55.1	37.2	34.1↑	39.2
75+	39.1	39.3	39.0	39.7	40.5	39.3	41.4↑	42.0↑	37.8↑
Under 65	55.0	48.9	65.8	56.2	50.0	67.0	45.9	40.7	55.8
65 and over	46.3	45.4	47.1	47.2	46.3	47.8	38.5	38.1↑	38.7

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b 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 1994.

S The difference in rates between 1974-76 and 1986-93 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.

- Statistic could not be calculated.

Table XVIII-5
NON-HODGKIN'S LYMPHOMAS

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																					
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Incidence																						
SEER	8.5	8.9	9.3	9.5	9.3	10.0	10.4	10.5	11.2	11.2	11.6	12.6	12.9	13.1	13.9	14.2	14.3	15.3	15.5	15.3	15.5	16.0
Mortality																						
U.S.	4.7	4.8	4.7	4.7	4.8	4.9	4.9	5.1	5.0	5.3	5.4	5.4	5.7	5.9	5.8	6.0	6.2	6.2	6.5	6.5	6.5	6.9
SEER	4.8	5.0	4.7	4.8	4.9	5.1	5.1	5.3	5.2	5.5	5.5	5.6	6.0	6.3	5.9	5.9	6.2	6.3	6.5	6.6	6.3	7.0
Relative Survival Rates (SEER)																						
1-year	65.8	68.9	69.1	72.5	70.6	72.6	70.6	72.5	74.8	72.4	76.2	74.1	72.8	71.0	73.2	72.1	71.3	70.7	70.1	70.9	71.0	
2-year	55.3	58.0	58.5	62.1	59.5	61.9	62.0	62.6	65.1	63.3	67.1	65.2	64.3	62.5	64.3	63.3	63.2	61.7	61.0	62.0		
3-year	49.5	53.8	54.6	57.3	53.4	56.0	55.9	57.3	59.7	58.4	61.3	60.8	60.2	58.5	59.6	59.6	58.0	57.2	56.6			
4-year	45.4	48.7	50.7	52.8	49.8	52.0	52.7	54.7	54.8	55.3	57.1	57.3	56.7	54.8	56.6	55.7	54.5	53.2				
5-year	42.5	45.0	47.2	48.7	47.2	48.7	48.8	50.6	51.7	51.6	53.8	54.4	54.1	51.4	53.5	52.9	51.0					
6-year	40.4	41.4	43.0	46.4	44.4	46.0	45.7	48.4	48.8	48.5	50.3	51.6	51.9	48.7	50.6	50.7						
7-year	37.3	38.2	40.6	43.7	42.3	43.1	43.6	46.1	46.7	46.2	48.0	49.7	49.0	46.9	48.3							
8-year	35.6	36.8	38.8	41.9	40.0	40.5	42.3	44.1	45.2	45.3	46.3	46.6	47.0	44.7								
9-year	33.9	34.6	37.4	39.9	37.6	38.4	41.5	41.9	42.5	44.4	44.9	44.9	45.3									
10-year	33.1	33.1	36.1	38.5	36.6	37.4	40.6	40.3	41.0	42.9	43.5	42.9										
11-year	33.0	31.7	34.3	37.1	35.7	36.7	39.2	39.5	40.0	41.6	41.9											
12-year	31.7	31.3	33.6	36.0	35.4	35.6	38.3	38.2	38.9	40.0												
13-year	30.3	30.1	32.9	36.0	34.4	35.6	37.3	37.0	38.6													
14-year	28.9	28.8	31.8	34.6	33.8	35.1	35.9	36.6														
15-year	28.2	27.3	31.4	32.8	32.5	33.8	35.2															
16-year	27.4	26.8	30.5	31.7	31.8	32.7																
17-year	26.5	26.3	30.5	31.4	31.3																	
18-year	26.2	26.3	30.5	30.8																		
19-year	25.9	26.0	30.5																			
20-year	25.3	25.2																				
21-year	24.5																					

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 XVIII-6
NON-HODGKIN'S LYMPHOMAS

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

	Year of Diagnosis/Death																					
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Incidence																						
SEER	10.0	10.4	11.0	10.7	10.8	11.8	11.8	12.4	13.2	13.0	13.8	15.1	15.2	15.9	17.3	17.4	17.7	18.8	19.6	18.9	19.2	19.6
Mortality																						
U.S.	5.8	5.9	5.7	5.7	5.7	6.0	6.0	6.1	6.0	6.4	6.6	6.5	7.0	7.2	7.0	7.4	7.7	7.9	8.0	8.1	8.0	8.5
SEER	5.9	6.2	5.9	5.5	5.9	6.3	6.5	6.2	6.3	6.8	6.5	6.6	7.6	7.8	7.4	7.3	7.7	8.0	7.9	8.3	7.6	8.5
Relative Survival Rates (SEER)																						
1-year	63.0	67.6	68.6	71.4	69.3	72.9	69.5	73.0	73.7	71.9	76.3	73.6	71.8	70.1	70.0	69.1	68.6	66.6	66.8	68.3	68.0	
2-year	52.9	57.1	61.0	60.7	57.5	61.0	60.4	62.9	65.1	63.2	68.0	64.4	63.2	61.6	61.5	60.7	59.6	57.6	57.1	57.9		
3-year	47.5	53.1	56.0	55.7	50.3	55.5	54.1	56.9	59.8	57.9	62.0	59.5	58.7	57.4	57.1	56.2	54.4	52.7	52.5			
4-year	44.9	48.7	52.1	51.1	47.3	51.3	50.3	54.1	53.9	54.4	57.8	56.0	54.3	53.0	53.8	52.0	50.6	48.9				
5-year	41.6	44.0	48.4	47.9	43.7	47.2	46.5	49.1	50.3	51.0	54.7	54.0	51.2	49.6	51.0	49.3	47.1					
6-year	38.4	40.1	44.4	45.7	41.6	44.9	43.4	46.9	47.6	47.5	51.1	50.8	48.7	46.5	48.4	47.4						
7-year	34.6	38.3	42.1	42.7	39.8	42.5	41.1	44.9	46.0	44.5	48.5	48.7	45.8	44.6	46.8							
8-year	33.2	36.4	41.0	40.8	37.6	40.3	39.7	43.0	44.5	44.1	47.0	45.3	43.9	42.2								
9-year	31.8	33.7	39.7	37.7	35.3	37.9	38.9	40.3	42.3	43.4	45.6	43.7	41.9									
10-year	31.0	32.0	38.4	35.7	33.6	37.6	38.3	38.5	41.2	41.2	43.6	41.9										
11-year	30.8	30.3	36.7	34.3	33.1	37.0	37.4	36.6	39.7	40.4	42.2											
12-year	29.7	29.8	36.0	33.5	32.9	36.1	36.9	35.8	39.0	39.0												
13-year	29.1	29.0	34.7	33.2	31.6	36.1	35.6	35.5	38.4													
14-year	26.8	28.3	33.6	31.5	31.0	35.9	34.0	35.4														
15-year	25.8	27.2	33.0	29.1	29.6	34.5	33.7															
16-year	24.6	26.5	31.9	28.3	28.7	33.9																
17-year	23.2	26.5	31.9	27.6	28.4																	
18-year	23.0	26.5	31.9	27.6																		
19-year	23.0	26.5	31.9																			
20-year	21.9	25.7																				
21-year	21.7																					

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 XVIII-7
NON-HODGKIN'S LYMPHOMAS

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

	Year of Diagnosis/Death																					
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Incidence																						
SEER	7.4	7.7	8.0	8.5	8.2	8.4	9.3	8.9	9.7	9.6	9.8	10.6	10.9	10.7	11.0	11.6	11.4	12.3	11.9	12.2	12.3	12.8
Mortality																						
U.S.	3.9	4.0	3.8	3.9	4.0	4.0	4.0	4.2	4.2	4.4	4.5	4.6	4.6	4.8	4.8	4.9	5.1	5.0	5.3	5.3	5.4	5.6
SEER	3.9	4.2	3.7	4.3	4.2	4.3	4.1	4.7	4.4	4.5	4.7	4.8	4.8	5.0	4.9	4.7	5.1	4.9	5.3	5.3	5.3	5.8
Relative Survival Rates (SEER)																						
1-year	68.8	70.4	69.6	73.6	72.0	72.2	71.8	72.0	75.9	72.9	76.1	74.7	73.9	72.0	77.1	75.7	74.7	75.9	74.6	74.3	74.9	
2-year	57.8	59.0	55.8	63.6	61.6	62.9	63.6	62.2	65.1	63.3	66.0	66.1	65.5	63.6	67.7	66.5	67.6	66.7	66.2	67.1		
3-year	51.5	54.6	53.0	58.8	56.5	56.5	57.7	57.6	59.6	59.0	60.6	62.3	61.8	59.8	62.8	63.7	62.5	62.7	62.2			
4-year	45.8	48.7	49.2	54.6	52.5	52.6	55.1	55.4	55.7	56.3	56.4	58.7	59.3	56.9	60.0	60.1	59.4	58.6				
5-year	43.5	46.0	46.0	49.4	50.9	50.3	51.2	52.2	53.1	52.2	52.8	55.0	57.2	53.5	56.5	57.2	55.9					
6-year	42.4	42.9	41.5	47.0	47.3	47.1	48.0	50.0	50.1	49.5	49.5	52.6	55.5	51.2	53.4	54.6						
7-year	40.0	38.1	38.8	44.8	44.9	43.7	46.1	47.3	47.5	47.9	47.5	50.7	52.6	49.5	50.2							
8-year	38.0	37.1	36.3	42.9	42.3	40.6	44.8	45.2	46.0	46.4	45.6	48.0	50.5	47.6								
9-year	36.0	35.6	34.7	42.0	39.9	38.9	44.0	43.6	42.7	45.4	44.3	46.3	49.0									
10-year	35.2	34.2	33.6	41.1	39.5	37.3	42.8	42.2	40.8	44.6	43.3	43.9										
11-year	35.1	33.1	31.6	39.7	38.2	36.3	41.0	42.2	40.3	42.8	41.5											
12-year	33.6	32.8	31.0	38.3	37.9	35.1	39.6	40.9	38.9	41.0												
13-year	31.6	31.3	30.9	38.3	37.1	34.9	39.0	38.6	38.7													
14-year	30.8	29.4	29.9	37.4	36.7	34.2	37.7	37.8														
15-year	30.4	27.4	29.7	36.1	35.4	33.0	36.7															
16-year	30.0	27.2	29.1	34.8	34.9	31.5																
17-year	29.6	25.8	29.1	34.8	34.2																	
18-year	29.0	25.8	29.1	33.4																		
19-year	28.0	25.1	29.1																			
20-year	28.0	24.8																				
21-year	27.0																					

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 XVIII-8

NON-HODGKIN'S LYMPHOMASNUMBER OF CASES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, All Ages

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas [⊕]	6795	1204	1298	1298	1399	1555	1604	1713	1901	1944	2025	2205	2339	2295	2384	2476
All Areas Excluding SF-Oakland SMSA	5534	1001	1085	1086	1175	1272	1314	1332	1478	1518	1553	1685	1796	1773	1862	1952
San Francisco-Oakland SMSA	1261	203	213	212	224	283	290	381	423	426	472	520	543	522	522	524
San Francisco City/County	336	50	46	59	63	104	106	140	186	175	216	245	224	221	195	200

AGE-ADJUSTED CANCER INCIDENCE RATES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, All Ages

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas [⊕]	11.0	12.4	13.2	13.0	13.8	15.1	15.2	15.9	17.3	17.4	17.7	18.8	19.6	18.9	19.2	19.6
All Areas Excluding SF-Oakland SMSA	10.7	12.3	13.2	13.0	13.9	14.8	15.0	14.9	16.2	16.5	16.4	17.3	18.2	17.6	18.1	18.6
San Francisco-Oakland SMSA	12.1	12.8	13.4	13.2	13.5	16.4	16.0	21.0	22.4	21.6	23.5	26.3	26.5	25.4	25.1	24.6
San Francisco City/County	12.2	12.4	11.7	14.0	14.8	24.5	22.5	31.2	39.9	36.0	45.1	53.4	45.6	46.6	40.3	41.1

§ SEER Program. Rates are per 100,000 males and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

⊕ All Areas refers to all SEER data collection areas. The San Francisco-Oakland SMSA represents 15% of all persons in the SEER areas. For this age group, all SEER areas may not be generalizable to the United States for Non-Hodgkin's Lymphoma.

Table XVIII-9

NON-HODGKIN'S LYMPHOMASNUMBER OF CASES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas \oplus	299	38	51	49	59	48	41	44	49	42	44	46	55	45	41	59
All Areas Excluding SF-Oakland SMSA	253	35	45	41	53	43	37	37	43	40	38	38	49	40	31	55
San Francisco-Oakland SMSA	46	<4	6	8	6	5	4	7	6	<4	6	8	6	5	10	4
San Francisco City/County	12	<4	<4	0	<4	<4	0	<4	0	0	0	<4	<4	0	<4	<4

AGE-ADJUSTED CANCER INCIDENCE RATES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas \oplus	1.2	1.1	1.5	1.5	1.8	1.5	1.3	1.3	1.5	1.3	1.3	1.4	1.6	1.3	1.2	1.7
All Areas Excluding SF-Oakland SMSA	1.2	1.2	1.5	1.4	1.8	1.5	1.3	1.3	1.5	1.4	1.3	1.3	1.7	1.3	1.0	1.8
San Francisco-Oakland SMSA	1.4	-	1.4	1.8	1.5	1.2	0.9	1.6	1.4	-	1.4	1.8	1.2	1.1	2.1	0.8
San Francisco City/County	2.1	-	-	0.0	-	-	0.0	-	0.0	0.0	0.0	-	-	0.0	-	-

§ SEER Program. Rates are per 100,000 males aged 0-19 and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

\oplus All Areas refers to all SEER data collection areas. The San Francisco-Oakland SMSA represents 15% of all persons in the SEER areas. For this age group, all SEER areas may not be generalizable to the United States for Non-Hodgkin's Lymphoma.

Table XVIII-10

NON-HODGKIN'S LYMPHOMASNUMBER OF CASES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 20-54

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas [⊕]	1896	333	350	365	352	458	492	565	640	653	747	837	919	879	934	966
All Areas Excluding SF-Oakland SMSA	1540	276	283	303	281	352	372	394	430	440	472	563	621	618	653	694
San Francisco-Oakland SMSA	356	57	67	62	71	106	120	171	210	213	275	274	298	261	281	272
San Francisco City/County	91	15	14	14	20	50	55	90	125	125	163	169	166	160	146	144

AGE-ADJUSTED CANCER INCIDENCE RATES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 20-54

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas [⊕]	6.4	7.4	7.6	8.0	7.5	9.5	10.0	11.1	12.1	11.9	13.2	14.4	15.4	14.5	15.0	15.0
All Areas Excluding SF-Oakland SMSA	6.3	7.4	7.4	8.0	7.2	8.9	9.3	9.4	10.0	10.1	10.3	11.9	12.8	12.5	12.7	13.0
San Francisco-Oakland SMSA	6.8	7.4	8.6	8.1	8.6	12.4	13.2	19.1	22.3	20.8	27.1	26.9	27.8	24.1	26.0	24.5
San Francisco City/County	7.7	8.3	8.0	7.2	10.2	26.0	24.1	43.5	58.7	54.6	73.7	77.4	69.9	71.9	63.7	63.1

§ SEER Program. Rates are per 100,000 males aged 20-54 and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

⊕ All Areas refers to all SEER data collection areas. The San Francisco-Oakland SMSA represents 15% of all persons in the SEER areas. For this age group, all SEER areas may not be generalizable to the United States for Non-Hodgkin's Lymphoma.

Table XVIII-11

NON-HODGKIN'S LYMPHOMASNUMBER OF CASES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 55+

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas \oplus	4600	833	897	884	988	1049	1071	1104	1212	1249	1234	1322	1365	1371	1409	1451
All Areas Excluding SF-Oakland SMSA	3741	690	757	742	841	877	905	901	1005	1038	1043	1084	1126	1115	1178	1203
San Francisco-Oakland SMSA	859	143	140	142	147	172	166	203	207	211	191	238	239	256	231	248
San Francisco City/County	233	34	31	45	42	53	51	48	61	50	53	75	57	61	48	55

AGE-ADJUSTED CANCER INCIDENCE RATES

By SEER Location and Year of Diagnosis, 1973-94

All Races, Males, Ages 55+

SEER Location	Year of Diagnosis															
	1973-79	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All Areas \oplus	40.8	46.3	49.3	47.6	52.3	54.8	54.9	55.9	60.4	61.9	60.4	63.6	65.0	63.9	64.8	65.8
All Areas Excluding SF-Oakland SMSA	39.9	45.7	49.6	47.6	53.1	54.6	55.3	54.3	59.6	61.2	60.5	61.8	63.5	61.6	64.1	64.5
San Francisco-Oakland SMSA	45.2	49.0	47.9	47.4	48.4	55.7	52.6	63.9	64.6	65.7	59.5	73.6	73.6	76.7	69.0	72.3
San Francisco City/County	42.7	43.0	39.8	57.4	52.2	67.2	63.8	59.5	76.6	65.6	69.8	102.3	79.1	82.0	64.5	69.8

§ SEER Program. Rates are per 100,000 males aged 55+ and are age-adjusted to the 1970 U.S. standard population. Each rate has been age-adjusted by 5-year age groups.

\oplus All Areas refers to all SEER data collection areas. The San Francisco-Oakland SMSA represents 15% of all persons in the SEER areas. For this age group, all SEER areas may not be generalizable to the United States for Non-Hodgkin's Lymphoma.

Table XVIII-12

NON-HODGKIN'S LYMPHOMASAGE-ADJUSTED CANCER SEER INCIDENCE RATES, 1978-94

By The Working Formulation and Year of Diagnosis

All Races, Males and Females

Working Formulation	Year of Diagnosis																
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Total	10.0	10.4	10.5	11.2	11.2	11.6	12.6	12.9	13.1	13.9	14.2	14.3	15.3	15.5	15.3	15.5	16.0
Low Grade:	2.6	2.7	2.9	2.9	2.9	3.1	3.2	3.3	3.5	3.4	3.5	3.3	3.6	3.5	3.6	3.5	3.5
A: Small, lymphocytic	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.3	1.2	1.4	1.4	1.3	1.4	1.3	1.5	1.4	1.4
B: Follicular, small cleaved	1.4	1.3	1.4	1.3	1.2	1.5	1.4	1.3	1.4	1.2	1.4	1.2	1.3	1.4	1.2	1.2	1.2
C: Follicular, mixed small cleaved and large cell	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9
Intermediate Grade:	5.3	5.3	5.1	5.6	5.3	5.4	5.8	6.0	5.9	6.3	6.4	6.3	6.8	6.6	6.3	6.5	6.6
D: Follicular, large cell	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
E: Diffuse, small cleaved	1.9	1.7	1.6	1.7	1.2	1.3	1.2	1.1	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
F: Diffuse, mixed small and large cell	0.6	0.7	0.6	0.7	0.8	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7
G: Diffuse, large cell	2.6	2.7	2.8	3.0	3.1	3.0	3.4	3.6	3.8	4.0	4.1	4.1	4.6	4.6	4.5	4.5	4.6
High Grade:	0.4	0.4	0.5	0.6	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.9	1.8	2.0	1.9	1.9	1.8
H: Large cell, immunoblastic	0.1	0.1	0.2	0.2	0.4	0.6	0.6	0.6	0.7	0.9	0.9	1.1	1.1	1.2	1.2	1.3	1.1
I: Lymphoblastic	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
J: Small noncleaved; Burkitt's	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.4	0.6	0.5	0.5	0.5
Unclassified Grade	1.6	2.0	1.9	2.2	2.0	2.0	2.4	2.4	2.3	2.6	2.6	2.9	3.1	3.4	3.4	3.5	4.0

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

Table XVIII-13
NON-HODGKIN'S LYMPHOMAS

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, 1992-94

All Races

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.03	0.07	1.96	0.00	0.01	0.04	1.68
10	0.02	0.07	0.20	1.97	0.01	0.04	0.08	1.69
20	0.05	0.18	0.38	1.97	0.03	0.07	0.16	1.69
30	0.14	0.34	0.63	1.95	0.04	0.14	0.35	1.67
40	0.21	0.51	0.94	1.87	0.10	0.31	0.67	1.65
50	0.31	0.77	1.34	1.74	0.22	0.58	1.12	1.58
60	0.50	1.13	1.49	1.55	0.38	0.95	1.33	1.43

Lifetime Risk of Being Diagnosed = 1.96% Lifetime Risk of Being Diagnosed = 1.68%
 Lifetime Risk of Dying = 0.93% Lifetime Risk of Dying = 0.87%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.03	0.07	2.05	0.00	0.01	0.04	1.77
10	0.02	0.07	0.20	2.06	0.01	0.03	0.07	1.78
20	0.05	0.18	0.38	2.05	0.02	0.06	0.16	1.77
30	0.14	0.34	0.64	2.03	0.04	0.14	0.36	1.76
40	0.21	0.51	0.98	1.94	0.10	0.33	0.70	1.73
50	0.32	0.80	1.41	1.80	0.23	0.61	1.18	1.66
60	0.52	1.18	1.55	1.61	0.40	1.00	1.40	1.50

Lifetime Risk of Being Diagnosed = 2.05% Lifetime Risk of Being Diagnosed = 1.77%
 Lifetime Risk of Dying = 0.99% Lifetime Risk of Dying = 0.94%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.03	0.08	1.17	0.00	0.01	0.05	0.80
10	0.01	0.07	0.23	1.19	0.01	0.05	0.09	0.82
20	0.06	0.22	0.49	1.19	0.04	0.08	0.16	0.81
30	0.17	0.45	0.68	1.18	0.04	0.12	0.25	0.78
40	0.30	0.55	0.75	1.08	0.08	0.21	0.40	0.75
50	0.28	0.50	0.75	0.87	0.14	0.34	0.56	0.71
60	0.27	0.57	0.70	0.71	0.22	0.46	0.58	0.62

Lifetime Risk of Being Diagnosed = 1.17% Lifetime Risk of Being Diagnosed = 0.80%
 Lifetime Risk of Dying = 0.37% Lifetime Risk of Dying = 0.44%

Table XVIII-14
NON-HODGKIN'S LYMPHOMAS

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	6.5	0.02		
High Five States				
Vermont	7.5*	0.49	(01)	15.4
Iowa	7.3	0.20	(02)	12.3
Minnesota	7.2	0.17	(03)	10.8
New Hampshire	7.2	0.35	(04)	10.8
Rhode Island	7.1	0.33	(05)	9.2
Low Five States				
Wyoming	5.5*	0.47	(47)	-15.4
Georgia	5.4⊕*	0.13	(48)	-16.9
Mississippi	5.4⊕*	0.19	(49)	-16.9
South Carolina	5.3⊕*	0.16	(50)	-18.5
Alaska	4.1*	0.55	(51)	-36.9

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	6.1	0.16	(42)	-6.2	Montana	6.8	0.37	(17)	4.6
Alaska	4.1*	0.55	(51)	-36.9	Nebraska	6.9	0.27	(12)	6.2
Arizona	6.3	0.17	(35)	-3.1	Nevada	6.4	0.30	(32)	-1.5
Arkansas	6.7	0.21	(24)	3.1	New Hampshire	7.2	0.35	(04)	10.8
California	6.2⊕	0.06	(39)	-4.6	New Jersey	6.8	0.12	(16)	4.6
Colorado	6.1	0.19	(41)	-6.2	New Mexico	5.6	0.26	(46)	-13.8
Connecticut	6.5	0.18	(29)	0.0	New York	7.0⊕	0.08	(08)	7.7
Delaware	6.7	0.41	(25)	3.1	North Carolina	6.0	0.12	(44)	-7.7
District of Columbia	6.6	0.43	(27)	1.5	North Dakota	7.1	0.43	(06)	9.2
Florida	6.2	0.08	(37)	-4.6	Ohio	7.0	0.10	(09)	7.7
Georgia	5.4⊕*	0.13	(48)	-16.9	Oklahoma	6.7	0.19	(22)	3.1
Hawaii	5.6	0.30	(45)	-13.8	Oregon	6.8	0.19	(13)	4.6
Idaho	6.6	0.34	(28)	1.5	Pennsylvania	6.9	0.09	(11)	6.2
Illinois	6.8	0.10	(20)	4.6	Rhode Island	7.1	0.33	(05)	9.2
Indiana	6.8	0.14	(14)	4.6	South Carolina	5.3⊕*	0.16	(50)	-18.5
Iowa	7.3	0.20	(02)	12.3	South Dakota	6.4	0.38	(34)	-1.5
Kansas	6.8	0.21	(18)	4.6	Tennessee	6.4	0.15	(30)	-1.5
Kentucky	6.2	0.17	(38)	-4.6	Texas	6.4	0.09	(31)	-1.5
Louisiana	6.4	0.17	(33)	-1.5	Utah	6.7	0.30	(23)	3.1
Maine	6.7	0.30	(21)	3.1	Vermont	7.5*	0.49	(01)	15.4
Maryland	6.2	0.15	(40)	-4.6	Virginia	6.3	0.14	(36)	-3.1
Massachusetts	7.1	0.14	(07)	9.2	Washington	6.6	0.15	(26)	1.5
Michigan	6.9	0.11	(10)	6.2	West Virginia	6.0	0.22	(43)	-7.7
Minnesota	7.2	0.17	(03)	10.8	Wisconsin	6.8	0.15	(15)	4.6
Mississippi	5.4⊕*	0.19	(49)	-16.9	Wyoming	5.5*	0.47	(47)	-15.4
Missouri	6.8	0.15	(19)	4.6					

* 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 XVIII-15
NON-HODGKIN'S LYMPHOMAS

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	8.1	0.04			Montana	7.9	0.59	(32)	-2.5
High Five States					Nebraska	8.2	0.44	(23)	1.2
Vermont	9.9*	0.85	(01)	22.2	Nevada	7.9	0.50	(31)	-2.5
Rhode Island	9.8*	0.60	(02)	21.0	New Hampshire	9.5*	0.61	(03)	17.3
New Hampshire	9.5*	0.61	(03)	17.3	New Jersey	8.5	0.20	(13)	4.9
District of Columbia	9.4*	0.79	(04)	16.0	New Mexico	6.8*	0.43	(47)	-16.0
New York	9.1⊕	0.14	(05)	12.3	New York	9.1⊕	0.14	(05)	12.3
Low Five States					North Carolina	7.5	0.22	(41)	-7.4
New Mexico	6.8*	0.43	(47)	-16.0	North Dakota	8.4	0.69	(15)	3.7
South Carolina	6.5⊕*	0.29	(48)	-19.8	Ohio	8.7	0.18	(09)	7.4
Georgia	6.5⊕*	0.22	(49)	-19.8	Oklahoma	8.3	0.32	(22)	2.5
Wyoming	6.4*	0.77	(50)	-21.0	Oregon	8.6	0.33	(11)	6.2
Alaska	4.5*	0.83	(51)	-44.4	Pennsylvania	8.6	0.16	(12)	6.2
Alabama	7.2	0.26	(45)	-11.1	Rhode Island	9.8*	0.60	(02)	21.0
Alaska	4.5*	0.83	(51)	-44.4	South Carolina	6.5⊕*	0.29	(48)	-19.8
Arizona	7.7	0.28	(38)	-4.9	South Dakota	8.0	0.64	(28)	-1.2
Arkansas	8.4	0.36	(16)	3.7	Tennessee	8.1	0.26	(24)	0.0
California	7.7	0.11	(37)	-4.9	Texas	8.0	0.15	(30)	-1.2
Colorado	7.5	0.32	(42)	-7.4	Utah	7.9	0.48	(33)	-2.5
Connecticut	8.0	0.30	(29)	-1.2	Vermont	9.9*	0.85	(01)	22.2
Delaware	8.3	0.70	(21)	2.5	Virginia	7.8	0.24	(35)	-3.7
District of Columbia	9.4*	0.79	(04)	16.0	Washington	8.1	0.26	(26)	0.0
Florida	7.8	0.14	(34)	-3.7	West Virginia	7.4	0.38	(43)	-8.6
Georgia	6.5⊕*	0.22	(49)	-19.8	Wisconsin	8.4	0.25	(17)	3.7
Hawaii	7.3	0.50	(44)	-9.9	Wyoming	6.4*	0.77	(50)	-21.0
Idaho	7.6	0.54	(40)	-6.2					
Illinois	8.6	0.17	(10)	6.2					
Indiana	8.4	0.25	(14)	3.7					
Iowa	8.8	0.33	(06)	8.6					
Kansas	8.3	0.36	(18)	2.5					
Kentucky	7.7	0.29	(36)	-4.9					
Louisiana	8.1	0.29	(25)	0.0					
Maine	8.1	0.50	(27)	0.0					
Maryland	7.6	0.27	(39)	-6.2					
Massachusetts	8.7	0.24	(08)	7.4					
Michigan	8.3	0.19	(20)	2.5					
Minnesota	8.8	0.28	(07)	8.6					
Mississippi	6.8*	0.33	(46)	-16.0					
Missouri	8.3	0.25	(19)	2.5					

* 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 XVIII-16
NON-HODGKIN'S LYMPHOMAS

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	5.3	0.03		
High Five States				
Iowa	6.1⊛	0.24	(01)	15.1
Minnesota	6.0	0.21	(02)	13.2
North Dakota	6.0	0.53	(03)	13.2
Michigan	5.9	0.14	(04)	11.3
Nebraska	5.9	0.33	(05)	11.3
Low Five States				
South Carolina	4.4⊛	0.20	(47)	-17.0
District of Columbia	4.3⊛	0.46	(48)	-18.9
Mississippi	4.3⊛	0.22	(49)	-18.9
Hawaii	4.0⊛	0.35	(50)	-24.5
Alaska	3.7⊛	0.72	(51)	-30.2

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	5.2	0.19	(29)	-1.9	Montana	5.8	0.46	(07)	9.4
Alaska	3.7⊛	0.72	(51)	-30.2	Nebraska	5.9	0.33	(05)	11.3
Arizona	5.2	0.20	(33)	-1.9	Nevada	5.0	0.37	(38)	-5.7
Arkansas	5.3	0.25	(24)	0.0	New Hampshire	5.3	0.39	(27)	0.0
California	5.0	0.08	(39)	-5.7	New Jersey	5.5	0.14	(18)	3.8
Colorado	5.0	0.23	(37)	-5.7	New Mexico	4.5⊛	0.31	(46)	-15.1
Connecticut	5.4	0.22	(22)	1.9	New York	5.5	0.09	(19)	3.8
Delaware	5.4	0.50	(21)	1.9	North Carolina	4.9	0.15	(44)	-7.5
District of Columbia	4.3⊛	0.46	(48)	-18.9	North Dakota	6.0	0.53	(03)	13.2
Florida	5.0	0.10	(41)	-5.7	Ohio	5.8	0.12	(08)	9.4
Georgia	4.7	0.16	(45)	-11.3	Oklahoma	5.4	0.22	(20)	1.9
Hawaii	4.0⊛	0.35	(50)	-24.5	Oregon	5.3	0.23	(25)	0.0
Idaho	5.6	0.43	(11)	5.7	Pennsylvania	5.7	0.11	(10)	7.5
Illinois	5.3	0.12	(26)	0.0	Rhode Island	5.3	0.38	(28)	0.0
Indiana	5.6	0.17	(12)	5.7	South Carolina	4.4⊛	0.20	(47)	-17.0
Iowa	6.1⊛	0.24	(01)	15.1	South Dakota	5.0	0.45	(42)	-5.7
Kansas	5.6	0.25	(14)	5.7	Tennessee	5.1	0.17	(34)	-3.8
Kentucky	5.1	0.20	(35)	-3.8	Texas	5.2	0.10	(31)	-1.9
Louisiana	5.2	0.20	(32)	-1.9	Utah	5.5	0.36	(17)	3.8
Maine	5.8	0.37	(09)	9.4	Vermont	5.6	0.57	(16)	5.7
Maryland	5.0	0.18	(36)	-5.7	Virginia	5.2	0.17	(30)	-1.9
Massachusetts	5.8	0.17	(06)	9.4	Washington	5.3	0.19	(23)	0.0
Michigan	5.9	0.14	(04)	11.3	West Virginia	5.0	0.27	(43)	-5.7
Minnesota	6.0	0.21	(02)	13.2	Wisconsin	5.6	0.18	(13)	5.7
Mississippi	4.3⊛	0.22	(49)	-18.9	Wyoming	5.0	0.61	(40)	-5.7
Missouri	5.6	0.18	(15)	5.7					

* 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 XVIII-17
 NON-HODGKIN'S LYMPHOMAS
 AGE-ADJUSTED SEER INCIDENCE RATES§, SEER MORTALITY RATES*, AND 5-YEAR RELATIVE SURVIVAL RATES‡
 By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1990-94</u>									
REGISTRY									
Standard 9 registries	15.5	19.2	12.3	16.0	19.8	12.8	11.6	15.7	8.3
San Francisco-Oakland	18.4	25.6	11.9	20.4	28.3	12.9	13.0	19.1	7.8
Connecticut	15.7	19.0	12.9	15.8	19.1	13.0	13.1	17.0	9.9
Metropolitan Detroit	15.3	18.5	12.6	16.0	18.9	13.6	11.3	16.1	7.7
Hawaii	12.7	15.3	10.2	15.9	20.8	10.6	-	-	-
Iowa	15.3	17.8	13.3	15.2	17.6	13.3	-	-	-
New Mexico	11.1	12.7	9.7	11.6	13.4	10.0	-	-	-
Seattle-Puget Sound	16.2	19.6	13.1	16.0	19.4	12.9	12.1	12.6	11.0
Utah	14.4	16.9	12.2	14.6	17.1	12.3	-	-	-
Metropolitan Atlanta	14.4	18.0	11.7	15.1	18.7	12.2	10.9	13.5	8.9
San Jose-Monterey	15.1	18.0	12.7	15.5	18.4	13.2	14.7	18.0	9.7
Los Angeles	14.5	18.6	10.8	15.7	20.1	11.6	10.0	13.0	7.6
<u>SEER MORTALITY RATES*, 1990-94</u>									
REGISTRY									
Standard 9 registries	6.5	8.1	5.3	6.9	8.5	5.6	4.2	5.2	3.6
San Francisco-Oakland	6.4	8.4	4.8	7.0	9.1	5.4	4.5	5.6	3.6
Connecticut	6.5	8.0	5.4	6.6	8.1	5.5	5.3	7.0	4.0
Metropolitan Detroit	6.9	8.5	5.7	7.5	9.2	6.2	4.6	5.6	3.9
Hawaii	5.6	7.3	4.0	7.2	8.5	5.5	-	-	-
Iowa	7.3	8.8	6.1	7.3	8.9	6.2	-	-	-
New Mexico	5.6	6.8	4.5	5.7	7.0	4.6	-	-	-
Seattle-Puget Sound	6.7	8.4	5.3	6.8	8.6	5.3	3.1	3.7	2.5
Utah	6.7	7.9	5.5	6.7	7.9	5.6	-	-	-
Metropolitan Atlanta	5.3	6.0	4.8	5.9	6.7	5.3	3.1	3.5	2.8
San Jose-Monterey	6.5	8.0	5.3	6.9	8.4	5.7	4.3	4.4	4.0
Los Angeles	6.2	7.7	5.0	6.6	8.2	5.5	4.4	5.6	3.5
<u>SURVIVAL RATES‡, 1986-93</u>									
REGISTRY									
Standard 9 registries	51.3	47.7	55.9	52.2	48.7	56.6	43.7	40.0	49.0
San Francisco-Oakland	44.3	36.4	58.5	44.5	36.8	59.0	43.2	32.9	57.2†
Connecticut	53.0	51.1	55.0	53.6	52.0	55.2	41.6	35.9†	49.0†
Metropolitan Detroit	51.0	50.4	51.7	52.7	52.5	53.1	41.6	40.2	43.8
Hawaii	45.7	43.8	48.4	44.6	42.3	50.2†	-	-	-
Iowa	54.2	53.9	54.7	54.4	53.9	54.9	-	-	-
New Mexico	53.4	53.0	53.8	54.3	53.9	54.8	-	-	-
Seattle-Puget Sound	55.2	50.5	61.4	55.5	51.1	61.3	47.2†	36.9†	62.6†
Utah	55.4	54.9	56.1	55.5	54.9	56.2	-	-	-
Metropolitan Atlanta	52.8	47.4	59.3	54.0	47.4	61.6	48.3	47.6	49.3†

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in this table and not other tables in this section.

§ 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.

‡ Survival rates are relative rates expressed as percents and are based on follow-up of patients through 1994.

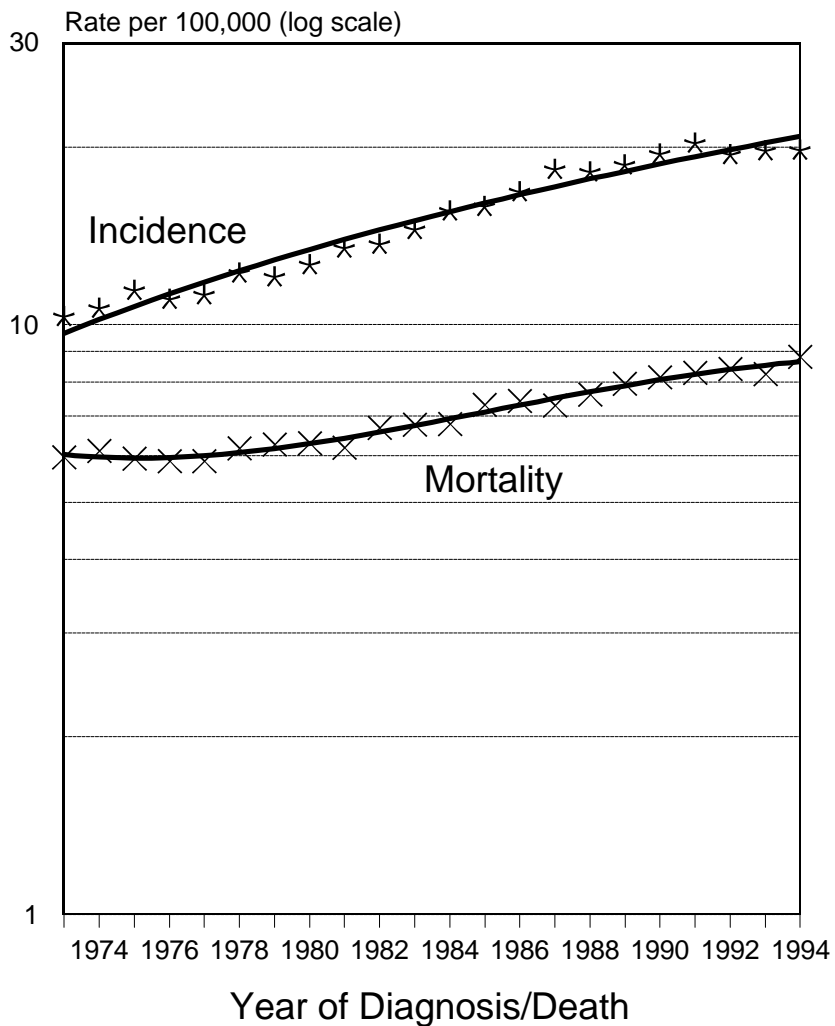
† The standard error of the survival rate is between 5 and 10 percentage points.

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

- Statistic could not be calculated or populations are inadequate.

SEER Incidence and U.S. Mortality Non-Hodgkin's Lymphoma, Male By Race

White



Black

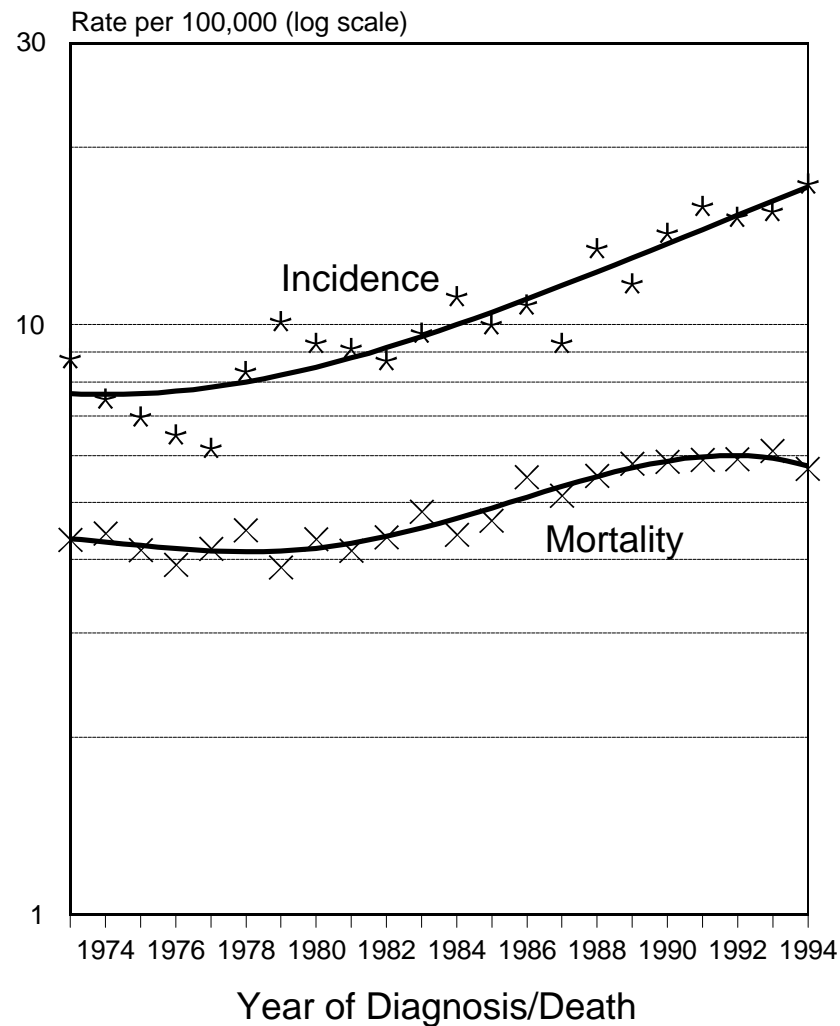


Figure XVIII-1

SEER Incidence and U.S. Mortality Non-Hodgkin's Lymphoma, Female By Race

White

Black

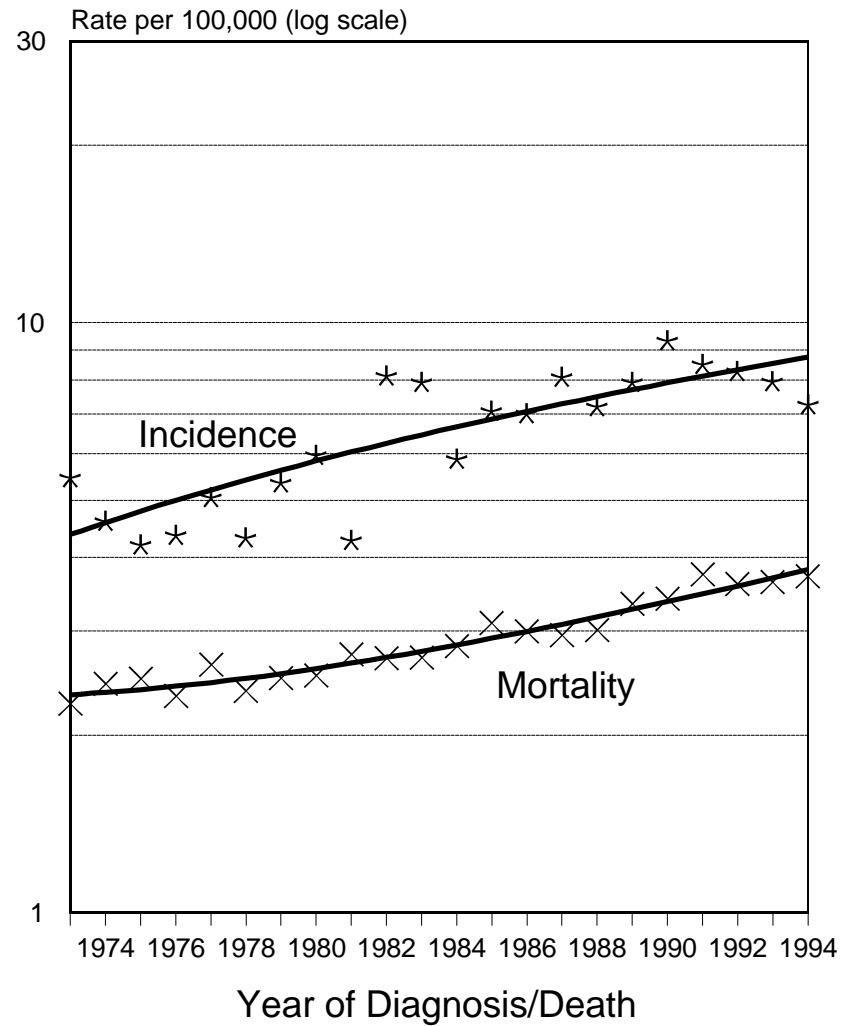
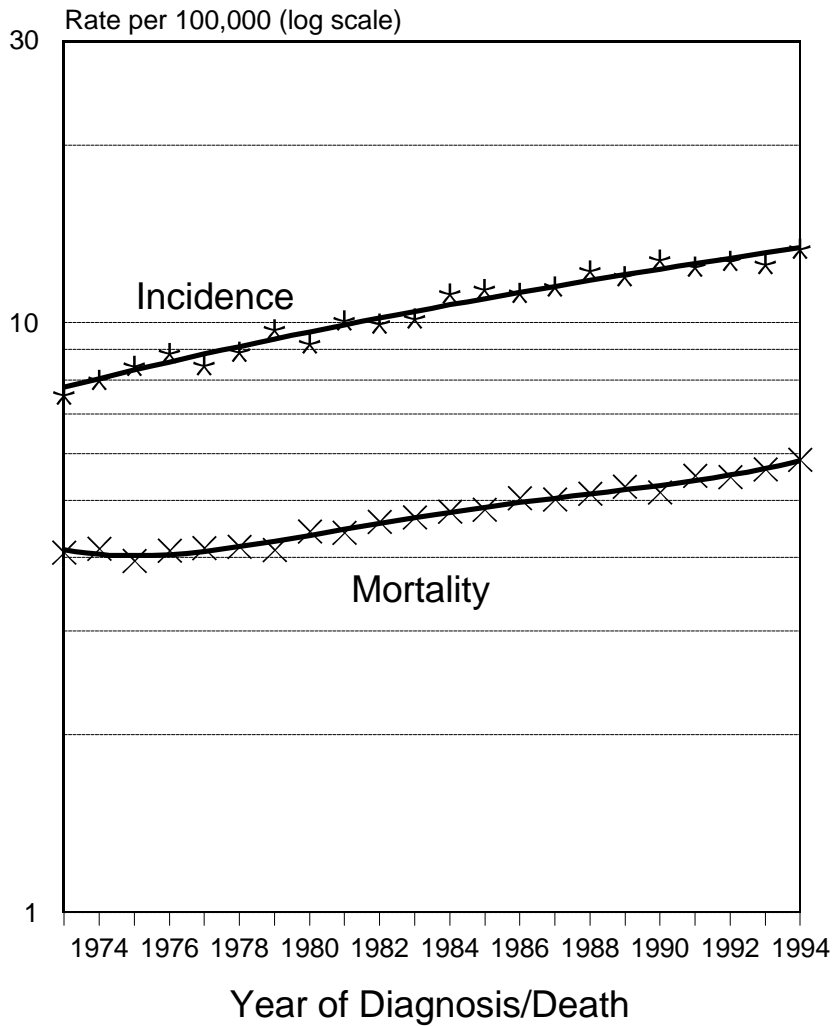
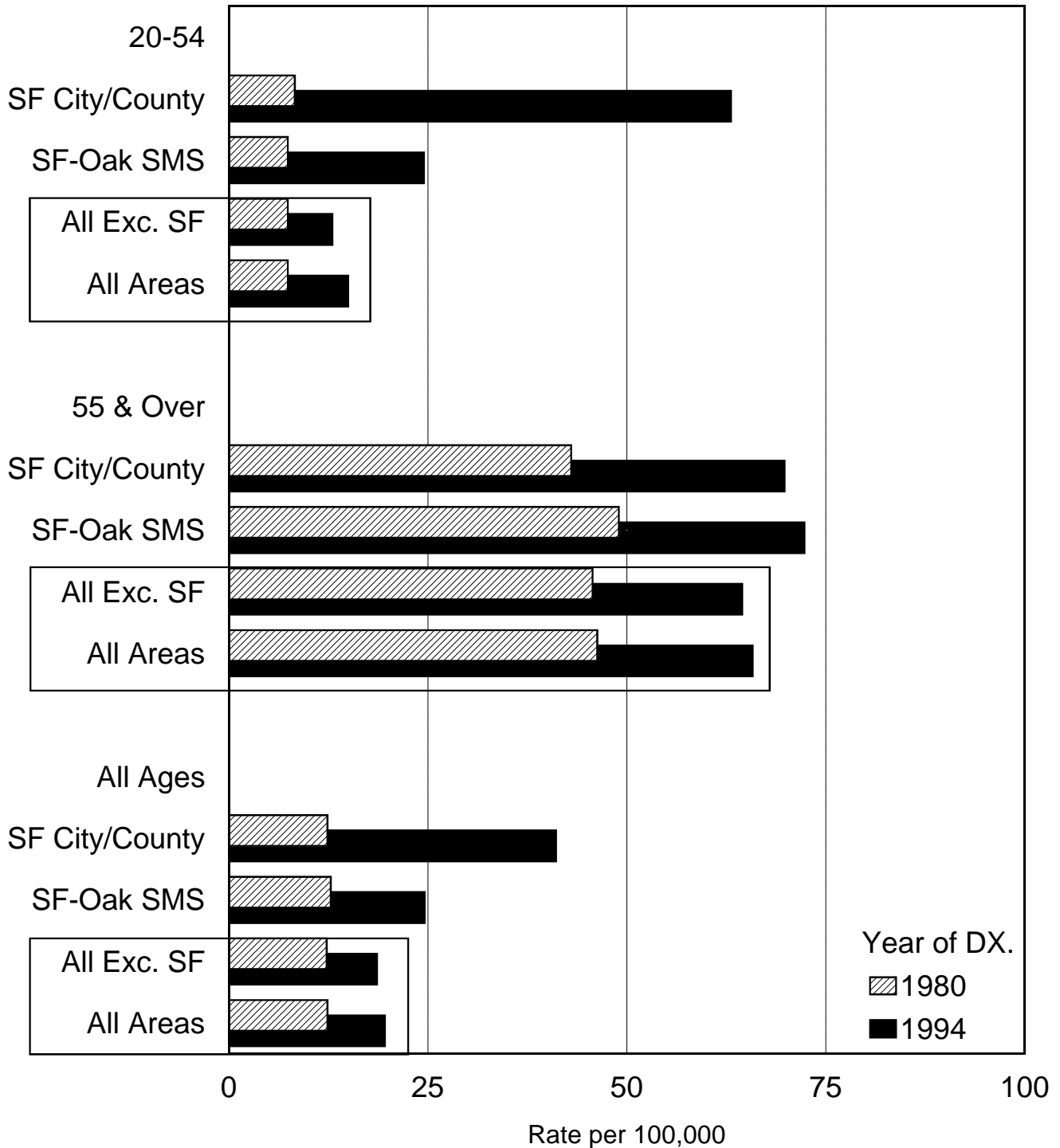


Figure XVIII-2

Non-Hodgkin's Lymphoma Incidence Rates Males

AGE/AREA



Non-Hodgkin's Lymphoma SEER Incidence by Age 1973-75 vs. 1992-94 All Races, Males

