

Table XVIII-1
NON-HODGKIN LYMPHOMA (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1975-2000
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>									
All Races	Male and Female	1975-1990	3.6 ^c	1990-1995	1.5	1995-2000	-0.7		
All Races	Male	1975-1991	4.3 ^c	1991-2000	-0.1				
All Races	Female	1975-1988	3.0 ^c	1988-1998	1.5 ^c	1998-2000	-2.8		
White	Male and Female	1975-1991	3.7 ^c	1991-2000	0.2				
White	Male	1975-1991	4.3 ^c	1991-2000	-0.2				
White	Female	1975-1990	2.9 ^c	1990-2000	0.9 ^c				
Black	Male and Female	1975-1995	4.6 ^c	1995-2000	-3.8 ^c				
Black	Male	1975-1995	5.6 ^c	1995-2000	-5.3				
Black	Female	1975-2000	2.6 ^c						
<u>SEER Delay-Adjusted Incidence^a</u>									
White	Male	1975-1990	4.5 ^c	1990-2000	0.6 ^c				
White	Female	1975-1988	3.1 ^c	1988-2000	1.6 ^c				
Black	Male	1975-1995	5.7 ^c	1995-2000	-4.5				
Black	Female	1975-2000	2.8 ^c						
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1991	2.5 ^c	1991-1997	1.6 ^c	1997-2000	-2.9 ^c		
All Races	Male	1975-1996	2.5 ^c	1996-2000	-2.2 ^c				
All Races	Female	1975-1996	2.2 ^c	1996-2000	-2.1 ^c				
White	Male and Female	1975-1996	2.3 ^c	1996-2000	-2.2 ^c				
White	Male	1975-1995	2.5 ^c	1995-2000	-1.2 ^c				
White	Female	1975-1996	2.2 ^c	1996-2000	-2.1 ^c				
Black	Male and Female	1975-1997	2.7 ^c	1997-2000	-6.0 ^c				
Black	Male	1975-1997	2.8 ^c	1997-2000	-6.7				
Black	Female	1975-1997	2.7 ^c	1997-2000	-5.1 ^c				

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups using the Joinpoint Regression Program.

^a Trends are from the SEER 9 areas.

^b Trends are from the NCHS public use data file.

^c The APC is significantly different from zero (p<.05).

Table XVIII-2
NON-HODGKIN LYMPHOMA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DIAGNOSIS:									
1975	11.1	12.9	9.6	11.6	13.5	10.1	6.4	7.3	5.3
1976	11.2	12.8	10.0	11.6	13.2	10.5	6.0	7.4	4.9
1977	11.2	12.9	9.8	11.6	13.5	10.2	6.6	7.1	6.1
1978	11.9	14.3	10.1	12.5	14.8	10.7	7.2	9.5	5.2
1979	12.5	14.2	11.2	13.0	14.5	11.8	8.5	12.0	5.9
1980	12.6	15.0	10.8	12.9	15.3	11.2	8.7	10.9	7.0
1981	13.5	15.9	11.8	14.0	16.3	12.3	7.4	10.5	5.0
1982	13.4	15.5	11.6	14.0	16.4	12.0	10.2	10.1	10.0
1983	14.0	16.5	12.0	14.6	17.4	12.4	10.3	10.9	9.6
1984	15.2	18.3	12.8	15.9	19.0	13.5	9.4	12.5	6.7
1985	15.5	18.3	13.2	16.2	19.1	13.8	9.9	12.0	8.3
1986	15.9	19.4	13.0	16.8	20.5	13.7	10.6	13.1	8.5
1987	16.7	20.8	13.4	17.7	22.1	14.0	10.4	10.4	10.0
1988	17.2	21.3	14.1	18.2	22.4	14.9	11.6	15.8	8.5
1989	17.3	21.6	13.8	18.3	23.0	14.4	11.6	14.4	9.6
1990	18.5	23.0	14.7	19.3	24.0	15.5	13.8	17.6	10.7
1991	18.7	23.7	14.5	19.6	24.7	15.2	14.1	19.0	10.2
1992	18.6	23.1	14.9	19.5	24.0	15.8	13.6	18.7	9.6
1993	18.9	23.4	15.0	19.6	24.3	15.6	14.0	19.1	9.7
1994	19.9	24.9	15.7	20.6	25.5	16.5	14.3	21.2	8.7
1995	19.8	25.2	15.3	20.5	26.0	15.8	16.4	23.4	11.1
1996	19.3	24.1	15.3	20.1	25.0	16.0	15.0	19.0	11.7
1997	19.8	24.3	16.3	20.6	24.9	17.3	16.2	23.7	10.9
1998	19.3	22.7	16.4	20.2	23.7	17.3	13.6	16.3	11.5
1999	19.3	23.9	15.8	20.2	24.7	16.7	13.4	17.6	10.3
2000	19.0	23.4	15.4	19.9	24.4	16.2	13.3	17.2	10.3
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
AGE AT DIAGNOSIS:									
All ages	19.3	23.7	15.8	20.2	24.5	16.7	14.3	18.7	10.9
Under 65	9.7	12.0	7.6	10.1	12.2	7.9	9.5	12.6	6.9
65 and over	85.5	104.3	73.1	90.4	109.6	77.7	47.0	61.3	38.7
All ages (world std.) ^b	13.0	15.9	10.5	13.6	16.5	11.1	10.4	13.5	7.9
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	0.6	0.8	-	0.6	-	-	-	-	-
5-9	0.9	1.4	-	0.9	1.3	-	-	-	-
10-14	1.1	1.6	0.5	1.1	1.6	-	-	-	-
15-19	1.7	2.3	1.2	1.8	2.4	1.2	-	-	-
20-24	2.5	3.1	1.8	2.4	3.1	1.8	2.9	-	-
25-29	3.4	4.2	2.5	3.3	4.2	2.5	4.4	5.9	-
30-34	6.1	8.3	3.9	6.0	8.1	3.9	8.0	11.6	4.8
35-39	8.0	10.7	5.2	7.8	10.3	5.1	10.7	17.0	5.2
40-44	11.8	15.6	8.0	11.8	15.5	8.0	14.2	19.5	9.6
45-49	15.9	19.7	12.3	16.5	20.2	12.8	16.8	22.7	11.8
50-54	21.9	25.9	18.1	22.4	26.5	18.4	22.0	27.7	17.2
55-59	32.3	36.9	27.9	34.4	38.9	30.1	24.7	30.0	20.3
60-64	43.7	51.7	36.4	46.8	54.6	39.5	32.2	36.5	28.7
65-69	63.0	75.0	52.7	67.0	79.1	56.5	42.9	52.5	35.6
70-74	80.5	94.9	69.4	85.7	99.3	74.9	45.2	57.1	37.3
75-79	99.6	120.4	85.0	106.0	128.5	90.3	44.5	58.8	35.4
80-84	105.3	129.6	90.9	109.8	135.0	95.0	58.6	71.0	52.2
85+	98.3	131.2	84.8	102.0	135.6	88.7	50.7	82.4	38.7

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b SEER 9 areas. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XVIII-3
NON-HODGKIN LYMPHOMA

U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DEATH:									
1975	5.6	6.9	4.6	5.8	7.2	4.8	3.7	4.8	2.9
1976	5.7	6.9	4.8	5.9	7.1	5.0	3.5	4.5	2.8
1977	5.8	6.9	4.9	6.0	7.1	5.1	3.9	4.9	3.1
1978	5.9	7.3	4.9	6.2	7.5	5.1	3.9	5.4	2.8
1979	5.9	7.4	4.9	6.2	7.7	5.1	3.6	4.5	3.0
1980	6.2	7.5	5.3	6.5	7.7	5.5	4.0	5.1	3.1
1981	6.2	7.4	5.3	6.4	7.7	5.5	4.0	5.0	3.3
1982	6.6	8.0	5.5	6.8	8.3	5.7	4.1	5.2	3.3
1983	6.7	8.1	5.6	6.9	8.4	5.8	4.3	5.8	3.2
1984	6.8	8.2	5.8	7.1	8.5	6.0	4.2	5.3	3.4
1985	7.1	8.8	5.8	7.3	9.2	6.0	4.6	5.6	3.9
1986	7.3	9.0	6.0	7.6	9.3	6.3	4.9	6.6	3.7
1987	7.3	8.8	6.1	7.6	9.1	6.4	4.7	6.3	3.6
1988	7.5	9.3	6.2	7.8	9.6	6.5	5.0	6.8	3.7
1989	7.8	9.7	6.4	8.1	10.0	6.7	5.3	7.1	4.1
1990	7.9	10.0	6.3	8.2	10.3	6.6	5.4	7.1	4.2
1991	8.2	10.1	6.7	8.5	10.5	7.0	5.7	7.2	4.6
1992	8.2	10.3	6.7	8.5	10.7	7.0	5.6	7.2	4.5
1993	8.2	10.1	6.9	8.6	10.5	7.2	5.7	7.5	4.4
1994	8.6	10.8	7.1	9.0	11.2	7.4	5.5	6.8	4.6
1995	8.7	10.8	7.2	9.1	11.2	7.5	5.8	7.6	4.5
1996	8.8	10.9	7.1	9.1	11.3	7.5	6.2	8.2	4.7
1997	8.9	11.0	7.3	9.2	11.4	7.6	6.3	8.4	4.9
1998	8.7	10.9	7.1	9.0	11.3	7.4	6.0	7.5	4.9
1999	8.3	10.4	6.9	8.7	10.7	7.2	5.7	7.4	4.4
2000	8.2	10.3	6.7	8.6	10.7	7.0	5.2	6.7	4.2
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
AGE AT DEATH:									
All ages	8.6	10.7	7.0	8.9	11.1	7.3	5.9	7.6	4.6
Under 65	2.8	3.6	2.1	2.9	3.6	2.1	2.9	3.9	2.0
65 and over	48.3	59.6	41.1	50.6	62.3	43.2	26.5	33.4	22.4
All ages (world std.) ^b	5.0	6.3	4.0	5.2	6.5	4.2	3.9	5.1	3.0
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	0.1	-	0.1	0.1	-	-	-	-
5-9	0.1	0.1	0.1	0.1	0.1	-	-	-	-
10-14	0.1	0.2	0.1	0.1	0.2	0.1	-	-	-
15-19	0.3	0.4	0.2	0.3	0.4	0.2	0.3	-	-
20-24	0.6	0.7	0.4	0.6	0.7	0.5	0.8	1.0	0.5
25-29	0.8	1.0	0.6	0.7	0.9	0.5	1.1	1.4	0.9
30-34	1.2	1.6	0.8	1.1	1.6	0.7	1.5	2.1	0.9
35-39	1.7	2.3	1.1	1.6	2.2	1.0	2.5	3.4	1.7
40-44	2.5	3.4	1.7	2.5	3.4	1.6	3.3	4.6	2.3
45-49	4.0	5.4	2.7	4.0	5.3	2.7	4.9	7.1	3.0
50-54	6.6	8.5	4.8	6.7	8.6	4.9	6.8	9.5	4.5
55-59	11.1	13.8	8.5	11.5	14.2	8.9	9.8	12.8	7.4
60-64	17.3	21.1	13.9	18.1	21.9	14.6	13.6	17.6	10.4
65-69	26.0	31.5	21.3	27.4	33.0	22.5	17.3	21.7	14.0
70-74	38.8	47.3	32.3	40.7	49.3	33.9	24.1	30.4	19.9
75-79	54.9	66.8	46.6	57.5	69.6	49.1	28.7	37.0	23.6
80-84	71.9	87.6	62.8	75.4	91.5	66.0	35.6	42.7	32.1
85+	78.0	102.2	68.4	81.8	107.2	71.7	37.4	48.5	33.2

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b NCHS public use data file. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XVIII-4
NON-HODGKIN LYMPHOMA

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:									
1960-1963 ^a	-	-	-	31	31	31	-	-	-
1970-1973 ^a	-	-	-	41	39	43	-	-	-
1974-1976 ^b	47.3	47.2	47.4	47.8	48.1	47.5	48.6	44.3 ^d	54.1 ^d
1977-1979 ^b	48.5	45.9	51.1	48.7	46.4	50.9	51.6	45.0	60.2 ^d
1980-1982 ^b	51.4	50.2	52.6	51.9	50.9	52.9	50.2	47.2	53.7
1983-1985 ^b	53.9	52.8	55.1	54.4	53.5	55.5	45.1	43.6	46.9
1986-1988 ^b	52.3	49.4	55.8	52.9	50.1	56.2	50.2	46.6	54.8
1989-1991 ^b	51.2	47.1	56.5	52.0	47.7	57.3	43.5	38.8	50.3
1992-1999 ^b	56.1 ^c	52.9 ^c	60.1 ^c	57.2 ^c	54.1 ^c	60.9 ^c	47.1	42.3	54.9
<u>5-YR RELATIVE SURVIVAL RATES, 1992-1999^b</u>									
AGE AT DIAGNOSIS:									
<45	57.0	50.2	72.2	59.1	52.0	75.5	42.8	36.8	57.1
45-54	65.3	60.0	74.0	66.6	61.2	75.2	56.3	51.5	65.9
55-64	62.2	58.3	67.1	62.8	59.2	67.6	55.6	49.1	62.6
65-74	55.6	54.4	56.9	56.8	55.4	58.1	44.0	43.9 ^d	44.4 ^d
75+	42.2	39.7	43.8	43.1	40.9	44.6	35.0 ^d	34.7 ^d	35.2 ^d
Under 65	61.1	55.3	70.8	62.6	56.8	72.3	49.1	42.8	61.3
65 and over	49.8	48.7	50.6	50.8	49.8	51.6	40.5	40.9	40.4

- ^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 9 areas. 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 into 2000.
- ^c The difference in rates between 1974-1976 and 1992-1999 is statistically significant ($p < .05$).
- ^d The standard error of the survival rate is between 5 and 10 percentage points.
- ^e The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table XVIII-5
NON-HODGKIN LYMPHOMA

INCIDENCE, DEATH, AND SURVIVAL RATES^c

By Year of Diagnosis/Death

All Races, Males and Females

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Incidence																		
SEER ^a	11.6	13.8	15.5	15.9	16.7	17.2	17.3	18.5	18.7	18.6	18.9	19.9	19.8	19.3	19.8	19.3	19.3	19.0
Mortality																		
U.S. ^b	5.8	6.5	7.1	7.3	7.3	7.5	7.8	7.9	8.2	8.2	8.2	8.6	8.7	8.8	8.9	8.7	8.3	8.2
SEER ^a	6.1	6.8	7.5	7.8	7.5	7.4	7.8	7.9	8.1	8.3	8.0	8.7	8.4	8.7	8.7	8.6	8.1	8.0
Relative Survival Rates (SEER ^a)																		
1-year	71.1	74.1	72.9	71.0	73.1	71.9	71.4	70.6	70.4	71.4	71.7	71.1	70.6	73.6	76.3	77.0	77.3	
2-year	60.9	64.8	64.2	62.5	64.1	63.0	63.2	61.4	61.3	62.7	63.8	63.4	62.3	66.1	68.7	70.1		
3-year	55.5	59.7	59.7	58.5	59.4	59.2	58.0	56.8	57.1	58.6	59.3	59.0	57.9	62.6	65.3			
4-year	51.8	56.0	56.1	54.8	56.2	55.2	54.5	52.9	54.5	55.4	56.5	55.7	55.3	59.4				
5-year	48.3	52.6	53.5	51.5	53.1	52.4	51.2	50.6	51.8	52.3	53.8	53.4	52.9					
6-year	45.2	49.6	51.3	48.8	50.3	50.3	48.6	48.4	49.1	50.0	51.7	51.6						
7-year	42.9	47.3	48.4	47.0	48.0	48.3	46.5	45.8	46.2	47.6	50.1							
8-year	40.9	45.4	46.5	44.9	45.7	46.3	43.8	43.9	44.1	46.2								
9-year	39.3	43.6	45.0	42.8	43.8	44.7	42.3	42.7	42.4									
10-year	38.1	42.0	43.4	41.3	42.7	43.4	40.5	41.8										
11-year	36.8	40.9	42.2	40.7	41.6	42.3	38.9											
12-year	35.9	39.7	41.3	39.3	40.2	40.9												
13-year	35.2	38.8	39.8	38.0	39.4													
14-year	34.3	38.0	38.8	37.5														
15-year	33.2	36.9	38.1															
16-year	32.3	36.1																
17-year	32.2																	
18-year	31.9																	
19-year	31.3																	
20-year	30.8																	

^a Rates are from the SEER 9 areas.

^b Rates are from the NCHS public use data file.

^c Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XVIII-6
NON-HODGKIN LYMPHOMA

INCIDENCE, DEATH, AND SURVIVAL RATES^c

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Incidence																		
SEER ^a	13.4	16.3	18.3	19.4	20.8	21.3	21.6	23.0	23.7	23.1	23.4	24.9	25.2	24.1	24.3	22.7	23.9	23.4
Mortality																		
U.S. ^b	7.1	7.8	8.8	9.0	8.8	9.3	9.7	10.0	10.1	10.3	10.1	10.8	10.8	10.9	11.0	10.9	10.4	10.3
SEER ^a	7.4	8.2	9.5	9.7	9.2	9.2	9.7	10.0	9.9	10.5	9.8	10.6	10.1	10.5	10.5	10.2	10.6	9.9
Relative Survival Rates (SEER ^a)																		
1-year	70.4	73.7	71.8	70.0	69.8	68.7	68.5	66.4	66.8	68.5	68.4	67.9	67.3	71.8	75.6	75.5	76.0	
2-year	60.1	64.8	63.0	61.4	61.0	60.0	59.3	57.4	57.1	58.3	59.4	59.9	59.1	64.0	67.5	68.7		
3-year	54.3	59.4	58.1	57.3	56.4	55.6	54.1	52.3	52.5	54.5	54.7	55.2	55.0	60.5	64.5			
4-year	50.5	55.3	53.6	52.8	52.8	51.4	50.3	48.5	49.9	50.9	51.7	51.9	52.3	57.0				
5-year	46.8	51.9	50.5	49.5	50.0	48.7	46.9	46.4	47.8	47.1	48.8	49.4	49.5					
6-year	44.0	48.7	47.8	46.4	47.3	47.0	44.2	44.7	45.1	45.4	46.9	48.0						
7-year	41.7	46.4	44.9	44.5	45.8	45.2	41.5	42.1	42.4	43.2	46.1							
8-year	40.0	44.5	43.0	42.1	43.2	44.1	39.2	40.6	40.2	42.0								
9-year	38.1	42.9	41.2	40.3	40.9	42.7	37.9	39.5	38.5									
10-year	36.8	41.1	40.1	38.7	39.9	41.6	36.4	38.6										
11-year	35.8	39.7	39.0	37.7	38.9	40.7	34.8											
12-year	35.0	38.9	37.7	36.8	37.8	39.6												
13-year	34.1	38.3	36.5	35.6	37.5													
14-year	33.0	37.6	36.0	34.7														
15-year	31.7	36.8	36.0															
16-year	30.9	35.7																
17-year	30.7																	
18-year	30.6																	
19-year	30.4																	
20-year	30.2																	

^a Rates are from the SEER 9 areas.

^b Rates are from the NCHS public use data file.

^c Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XVIII-7
NON-HODGKIN LYMPHOMA

INCIDENCE, DEATH, AND SURVIVAL RATES^c

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Incidence																		
SEER ^a	10.2	11.8	13.2	13.0	13.4	14.1	13.8	14.7	14.5	14.9	15.0	15.7	15.3	15.3	16.3	16.4	15.8	15.4
Mortality																		
U.S. ^b	4.8	5.5	5.8	6.0	6.1	6.2	6.4	6.3	6.7	6.7	6.9	7.1	7.2	7.1	7.3	7.1	6.9	6.7
SEER ^a	5.1	5.8	6.1	6.3	6.2	6.0	6.4	6.3	6.8	6.7	6.8	7.3	7.1	7.4	7.3	7.3	6.3	6.6
Relative Survival Rates (SEER ^a)																		
1-year	72.0	74.5	74.1	72.2	77.2	75.7	74.9	75.8	75.1	75.0	75.8	75.3	74.9	75.9	77.1	78.8	79.0	
2-year	61.8	64.8	65.4	63.9	68.0	66.5	67.9	66.4	66.9	68.2	69.3	67.8	66.6	68.8	70.1	71.6		
3-year	56.8	60.1	61.5	60.0	63.0	63.5	62.8	62.4	63.0	63.7	65.0	63.9	61.8	65.4	66.4			
4-year	53.2	56.7	58.8	57.2	60.3	59.7	59.7	58.3	60.6	61.1	62.5	60.6	59.4	62.5				
5-year	49.9	53.3	56.8	53.9	56.8	56.7	56.5	55.9	57.1	58.9	60.0	58.5	57.4					
6-year	46.5	50.5	55.1	51.5	53.9	54.3	54.1	52.9	54.3	55.7	57.9	56.3						
7-year	44.1	48.3	52.3	50.0	50.8	52.0	52.7	50.4	51.3	53.1	55.2							
8-year	41.9	46.3	50.4	48.1	48.8	48.9	49.6	48.0	49.3	51.6								
9-year	40.5	44.4	49.1	45.9	47.3	47.0	47.9	46.8	47.7									
10-year	39.4	43.0	47.0	44.3	46.1	45.6	45.6	45.8										
11-year	37.9	42.1	45.8	44.3	44.9	44.2	44.0											
12-year	36.8	40.6	45.3	42.2	43.2	42.6												
13-year	36.4	39.4	43.5	40.9	41.7													
14-year	35.5	38.4	41.9	40.9														
15-year	34.6	37.1	40.5															
16-year	33.8	36.6																
17-year	33.7																	
18-year	33.1																	
19-year	32.3																	
20-year	31.5																	

^a Rates are from the SEER 9 areas.

^b Rates are from the NCHS public use data file.

^c Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XVIII-8

NON-HODGKIN LYMPHOMANUMBER OF CASES

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, All Ages

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	1979	2114	2332	2594	2958	3328	3855	4253	4671	5020	5288	5124	5279
All Areas but SF-Oakland	1609	1732	1942	2168	2450	2656	3002	3258	3600	3934	4132	4251	4327
San Francisco- Oakland SMSA	370	382	390	426	508	672	853	995	1071	1086	1156	873	952
San Francisco City/County	110	92	93	105	167	246	360	463	446	402	452	237	247

AGE-ADJUSTED CANCER INCIDENCE RATES^a

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, All Ages

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	12.9	13.6	14.6	15.7	17.4	18.9	21.1	22.3	23.4	24.2	24.7	23.4	23.6
All Areas but SF-Oakland	12.6	13.3	14.5	15.7	17.3	18.1	19.7	20.6	21.7	22.7	23.1	23.2	23.1
San Francisco- Oakland SMSA	14.4	15.3	14.8	15.9	18.0	22.3	27.7	30.5	31.6	31.7	32.7	24.7	26.3
San Francisco City/County	15.3	14.1	14.0	15.1	24.6	33.3	48.2	61.9	56.6	51.2	57.2	30.2	31.2

^a SEER 9 areas. Rates are per 100,000 males and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b 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 Lymphoma.

- Statistic not shown. Rate based on less than 4 cases for the time interval.

Table XVIII-9

NON-HODGKIN LYMPHOMANUMBER OF CASES

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	91	92	75	101	106	85	91	89	99	103	101	122	119
All Areas but SF-Oakland	82	75	66	87	96	74	83	75	88	88	82	103	102
San Francisco- Oakland SMSA	9	17	9	14	10	11	8	14	11	15	19	19	17
San Francisco City/County	<4	6	<4	<4	<4	<4	0	<4	<4	<4	4	<4	0

AGE-ADJUSTED CANCER INCIDENCE RATES^a

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	1.3	1.3	1.1	1.5	1.6	1.3	1.4	1.3	1.4	1.4	1.4	1.6	1.5
All Areas but SF-Oakland	1.3	1.2	1.1	1.5	1.6	1.3	1.4	1.3	1.5	1.4	1.3	1.6	1.5
San Francisco- Oakland SMSA	1.0	1.8	1.0	1.6	1.2	1.2	0.9	1.6	1.2	1.5	1.9	1.9	1.7
San Francisco City/County	-	3.8	-	-	-	-	0.0	-	-	-	2.9	-	0.0

^a SEER 9 areas. Rates are per 100,000 males aged 0-19 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b 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 Lymphoma.

- Statistic not shown. Rate based on less than 4 cases for the time interval.

Table XVIII-10

NON-HODGKIN LYMPHOMANUMBER OF CASES

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 20-54

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	572	575	648	713	815	1064	1299	1590	1817	1957	1970	1623	1583
All Areas but SF-Oakland	462	485	535	583	636	771	872	1038	1255	1389	1399	1266	1236
San Francisco- Oakland SMSA	110	90	113	130	179	293	427	552	562	568	571	357	347
San Francisco City/County	33	13	27	28	70	145	250	334	326	292	310	131	119

AGE-ADJUSTED CANCER INCIDENCE RATES^a

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 20-54

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	6.8	6.7	7.6	8.1	9.1	11.3	12.8	14.8	16.0	16.2	15.6	12.4	11.8
All Areas but SF-Oakland	6.7	6.9	7.5	8.0	8.6	10.0	10.5	11.7	13.5	13.8	13.3	11.6	11.0
San Francisco- Oakland SMSA	7.5	6.1	7.7	8.7	11.4	17.4	23.8	29.5	28.1	28.1	27.8	16.7	15.6
San Francisco City/County	9.5	4.0	7.8	7.9	20.1	36.9	63.4	84.3	77.5	68.6	72.1	28.8	26.0

^a SEER 9 areas. Rates are per 100,000 males aged 20-54 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b 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 Lymphoma.

- Statistic not shown. Rate based on less than 4 cases for the time interval.

Table XVIII-11

NON-HODGKIN LYMPHOMANUMBER OF CASES

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 55+

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	1316	1447	1609	1780	2037	2179	2465	2574	2755	2960	3217	3379	3577
All Areas but SF-Oakland	1065	1172	1341	1498	1718	1811	2047	2145	2257	2457	2651	2882	2989
San Francisco- Oakland SMSA	251	275	268	282	319	368	418	429	498	503	566	497	588
San Francisco City/County	76	73	63	76	95	99	110	128	119	108	138	103	128

AGE-ADJUSTED CANCER INCIDENCE RATES^a

By SEER Location and Year of Diagnosis, 1975-2000

All Races, Males, Ages 55+

Year of Diagnosis

SEER Location	1975- 1976	1977- 1978	1979- 1980	1981- 1982	1983- 1984	1985- 1986	1987- 1988	1989- 1990	1991- 1992	1993- 1994	1995- 1996	1997- 1998	1999- 2000
All Areas ^b	42.7	46.2	49.2	52.5	58.2	60.2	66.8	68.1	70.3	73.3	77.1	78.5	81.0
All Areas but SF-Oakland	41.5	44.6	49.0	52.7	58.6	59.8	65.7	67.4	68.3	71.9	75.5	79.4	80.3
San Francisco- Oakland SMSA	48.7	54.9	50.1	51.9	56.0	62.0	72.5	71.7	80.8	80.7	85.6	73.9	84.3
San Francisco City/County	48.6	51.6	44.2	51.1	66.3	67.5	77.1	91.6	83.0	77.2	95.2	71.1	85.4

^a SEER 9 areas. Rates are per 100,000 males aged 55+ and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b 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 Lymphoma.

- Statistic not shown. Rate based on less than 4 cases for the time interval.

Table XVIII-12

NON-HODGKIN LYMPHOMAAGE-ADJUSTED SEER CANCER INCIDENCE RATES^a, 1980-2000

By the Working Formulation and Year of Diagnosis

All Races, Males and Females

Working Formulation	Year of Diagnosis																				
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total	12.6	13.5	13.4	14.0	15.2	15.5	15.9	16.7	17.2	17.3	18.5	18.7	18.6	18.8	19.9	19.8	19.3	19.8	19.3	19.3	19.0
Low Grade:	3.4	3.5	3.4	3.8	3.8	3.9	4.1	4.1	4.3	3.9	4.4	4.2	4.3	4.2	4.4	4.0	3.9	4.2	4.2	3.9	3.5
A: Small, lymphocytic	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.7	1.8	1.6	1.7	1.6	1.8	1.7	1.8	1.6	1.5	1.6	1.6	1.7	1.6
B: Follicular, small cleaved	1.6	1.6	1.4	1.7	1.7	1.6	1.7	1.4	1.7	1.4	1.5	1.6	1.5	1.4	1.4	1.3	1.3	1.5	1.4	1.1	0.9
C: Follicular, mixed small cleaved and large cell	0.5	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.9	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.0
Intermediate Grade:	6.2	6.8	6.4	6.6	7.1	7.2	7.3	7.6	7.9	7.6	8.2	8.1	7.7	8.0	8.3	8.2	7.9	8.2	8.2	8.4	8.0
D: Follicular, large cell	0.2	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6
E: Diffuse, small cleaved	1.9	2.0	1.4	1.6	1.5	1.3	1.0	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.9	1.0	0.7
F: Diffuse, mixed small and large cell	0.7	0.9	0.9	1.1	1.1	1.2	1.1	1.1	1.1	1.0	0.9	1.0	0.8	0.8	0.9	0.6	0.6	0.5	0.5	0.4	0.3
G: Diffuse, large cell	3.4	3.6	3.8	3.6	4.1	4.4	4.7	4.9	5.1	5.0	5.6	5.6	5.5	5.6	5.8	6.0	5.7	6.2	6.3	6.4	6.3
High Grade:	0.6	0.6	1.1	1.2	1.3	1.3	1.6	1.9	1.9	2.2	2.1	2.3	2.2	2.3	2.0	1.7	1.7	1.4	1.0	0.9	1.0
H: Large cell, immunoblastic	0.2	0.2	0.5	0.7	0.7	0.7	0.9	1.0	1.0	1.4	1.4	1.5	1.5	1.5	1.3	1.1	1.1	0.8	0.5	0.4	0.3
I: Lymphoblastic	-	-	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2
J: Small noncleaved; Burkitt's	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.5	0.6	0.6	0.5	0.5	0.6	0.4	0.5	0.4	0.4	0.5
Unclassified Grade	2.4	2.7	2.4	2.5	3.0	3.0	2.9	3.2	3.2	3.6	3.9	4.2	4.3	4.4	5.2	5.9	5.8	5.9	5.9	6.1	6.5

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard by 5-year age groups.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XVIII-13
NON-HODGKIN LYMPHOMA

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 (12 SEER Areas) With Cancer and
Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1998-2000

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	0.06	2.12	0.00	0.01	0.03	1.79
10	0.02	0.05	0.13	2.15	0.01	0.03	0.08	1.82
20	0.03	0.11	0.27	2.14	0.02	0.07	0.17	1.81
30	0.08	0.24	0.52	2.14	0.05	0.15	0.35	1.80
40	0.16	0.45	0.95	2.09	0.10	0.30	0.68	1.77
50	0.30	0.81	1.48	2.00	0.21	0.59	1.14	1.70
60	0.56	1.27	1.74	1.84	0.40	0.98	1.45	1.57

Lifetime Risk of Being Diagnosed = 2.12%
Lifetime Risk of Dying = 0.96%

Lifetime Risk of Being Diagnosed = 1.79%
Lifetime Risk of Dying = 0.85%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.03	0.06	2.26	0.00	0.01	0.03	1.91
10	0.02	0.05	0.13	2.28	0.01	0.03	0.08	1.93
20	0.03	0.11	0.27	2.28	0.02	0.07	0.17	1.92
30	0.08	0.24	0.54	2.27	0.05	0.15	0.36	1.91
40	0.16	0.47	1.01	2.22	0.10	0.32	0.73	1.88
50	0.32	0.87	1.59	2.13	0.22	0.64	1.23	1.81
60	0.60	1.36	1.85	1.94	0.44	1.06	1.54	1.66

Lifetime Risk of Being Diagnosed = 2.26%
Lifetime Risk of Dying = 1.03%

Lifetime Risk of Being Diagnosed = 1.91%
Lifetime Risk of Dying = 0.91%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.02	0.05	1.17	0.00	0.01	0.03	1.04
10	0.01	0.05	0.15	1.20	0.01	0.03	0.09	1.07
20	0.03	0.14	0.31	1.20	0.02	0.08	0.18	1.07
30	0.11	0.29	0.51	1.20	0.06	0.16	0.32	1.05
40	0.19	0.42	0.70	1.13	0.11	0.27	0.52	1.02
50	0.25	0.56	0.83	1.02	0.17	0.42	0.69	0.95
60	0.36	0.68	0.85	0.89	0.28	0.57	0.78	0.85

Lifetime Risk of Being Diagnosed = 1.17%
Lifetime Risk of Dying = 0.50%

Lifetime Risk of Being Diagnosed = 1.04%
Lifetime Risk of Dying = 0.44%

Table XVIII-14
NON-HODGKIN LYMPHOMA (Invasive)

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

By Race/Ethnicity and Sex

Incidence^a

RACE/ETHNICITY	Rate 1996-2000			Trend 1992-2000		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	19.1	23.5	15.6	0.0	-0.5	0.9 ^d
White	20.1	24.5	16.4	0.0	-0.5	0.9 ^d
White Hispanic ^b	16.4	19.6	13.7	-0.9	-1.5	0.2
White Non-Hispanic ^b	20.4	25.1	16.6	-0.1	-0.7	0.8
Black	14.6	18.6	11.6	0.4	-1.4	3.2 ^d
Asian/Pacific Islander	13.6	16.8	11.0	0.5	0.3	0.8
Amer Ind/Alaska Nat	7.7	8.1	7.2	1.0	-	-
Hispanic ^b	15.9	19.0	13.2	-0.7	-1.2	0.3

Mortality^c

RACE/ETHNICITY	Rate 1996-2000			Trend 1992-2000		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	8.6	10.7	7.0	0.0	0.1	0.0
White	8.9	11.1	7.3	0.1	0.1	0.0
White Hispanic ^b	6.9	8.6	5.7	0.5	0.1	1.1
White Non-Hispanic ^b	9.0	11.2	7.4	0.3	0.5	0.0
Black	5.9	7.6	4.6	-0.1	-0.1	0.0
Asian/Pacific Islander	5.3	6.8	4.2	-0.5	-1.0	0.3
Amer Ind/Alaska Nat	4.9	5.9	4.2	5.6 ^d	6.3 ^d	5.0
Hispanic ^b	6.8	8.4	5.5	0.7	0.3	1.2

The APC is the Annual Percent Change over the time interval.

- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

^b Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Oklahoma, New York, and New Hampshire.

^c Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

^d The APC is significantly different from zero (p<.05).

Table XVIII-15
NON-HODGKIN LYMPHOMAAGE-ADJUSTED SEER INCIDENCE RATES^a AND SEER DEATH RATES^b
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES^a, 1996-2000</u>									
REGISTRY									
12 registries	19.1	23.5	15.6	20.1	24.5	16.4	14.6	18.6	11.6
11 registries	19.1	23.5	15.6	20.1	24.5	16.4	14.6	18.6	11.6
9 registries	19.3	23.7	15.8	20.2	24.5	16.7	14.3	18.7	10.9
San Francisco-Oakland	20.7	26.6	15.7	22.8	29.2	17.2	15.9	21.3	11.4
Connecticut	20.5	24.7	17.3	20.8	24.9	17.7	14.7	20.4	10.9
Metropolitan Detroit	19.8	24.1	16.7	21.1	25.3	18.0	14.4	18.3	11.5
Hawaii	15.7	19.0	12.9	18.3	20.8	15.9	-	-	-
Iowa	19.4	22.7	16.8	19.4	22.7	16.9	14.8	-	-
New Mexico	14.8	17.5	12.5	15.3	18.3	12.8	-	-	-
Seattle-Puget Sound	20.6	24.9	17.1	21.1	25.3	17.5	15.9	23.1	10.1
Utah	17.9	22.7	14.0	18.2	23.0	14.3	-	-	-
Metropolitan Atlanta	17.6	22.2	14.1	19.2	23.9	15.4	12.9	16.8	10.3
San Jose-Monterey	19.4	22.8	16.7	19.4	23.0	16.4	14.4	-	-
Los Angeles	18.4	23.1	14.6	19.6	24.9	15.3	15.5	18.2	13.2
<u>SEER DEATH RATES^b, 1996-2000</u>									
REGISTRY									
12 registries	8.3	10.3	6.8	8.8	10.9	7.3	6.0	7.6	4.8
11 registries	8.3	10.3	6.8	8.8	10.9	7.3	6.0	7.7	4.8
9 registries	8.4	10.3	7.0	8.9	10.8	7.4	5.7	7.5	4.5
San Francisco-Oakland	8.2	10.1	6.7	9.2	11.4	7.5	5.9	7.0	5.0
Connecticut	8.6	10.2	7.4	8.7	10.4	7.5	6.6	9.0	5.4
Metropolitan Detroit	8.7	11.1	7.1	9.5	12.0	7.8	5.7	7.5	4.3
Hawaii	7.7	9.5	6.1	8.6	10.8	6.5	-	-	-
Iowa	9.1	10.8	7.8	9.1	10.8	7.8	-	-	-
New Mexico	6.8	7.9	5.9	7.1	8.2	6.0	-	-	-
Seattle-Puget Sound	8.7	10.8	7.1	9.0	11.1	7.4	7.7	-	-
Utah	8.4	10.2	7.0	8.5	10.3	7.1	-	-	-
Metropolitan Atlanta	7.8	10.4	6.0	8.7	11.2	6.8	5.2	7.3	3.7
San Jose-Monterey	7.6	9.3	6.2	7.9	9.6	6.5	-	-	-
Los Angeles	8.1	10.3	6.5	8.9	11.2	7.1	6.6	8.1	5.5

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.

^a SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b NCHS public use data file. Death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

- Statistic could not be calculated or populations are inadequate.

Table XVIII-16
NON-HODGKIN LYMPHOMAAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, 1996-2000

All Races, Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	8.6	0.03							
High Five States									
South Dakota	9.9 ^b	0.49	(01)	15.1					
Minnesota	9.8 ^c	0.20	(02)	14.0					
Ohio	9.6 ^c	0.13	(03)	11.6					
Rhode Island	9.6	0.41	(04)	11.6					
Vermont	9.5	0.56	(05)	10.5					
Low Five States									
Georgia	7.5 ^c	0.15	(47)	-12.8					
Mississippi	7.4 ^c	0.24	(48)	-14.0					
New Mexico	6.8 ^{bc}	0.29	(49)	-20.9					
Wyoming	6.6 ^{bc}	0.54	(50)	-23.3					
District of Columbia	5.8 ^{bc}	0.46	(51)	-32.6					
Alabama	7.7 ^c	0.19	(43)	-10.5	Montana	8.6	0.43	(30)	0.0
Alaska	8.6	0.84	(29)	0.0	Nebraska	8.8	0.31	(20)	2.3
Arizona	8.1	0.18	(39)	-5.8	Nevada	7.7	0.32	(46)	-10.5
Arkansas	8.7	0.25	(26)	1.2	New Hampshire	9.1	0.40	(11)	5.8
California	8.1 ^c	0.08	(38)	-5.8	New Jersey	9.1 ^c	0.15	(09)	5.8
Colorado	8.0	0.22	(41)	-7.0	New Mexico	6.8 ^{bc}	0.29	(49)	-20.9
Connecticut	8.6	0.22	(31)	0.0	New York	8.5	0.09	(32)	-1.2
Delaware	8.2	0.47	(37)	-4.7	North Carolina	7.7 ^c	0.14	(42)	-10.5
District of Columbia	5.8 ^{bc}	0.46	(51)	-32.6	North Dakota	9.1	0.51	(10)	5.8
Florida	8.3	0.09	(35)	-3.5	Ohio	9.6 ^c	0.13	(03)	11.6
Georgia	7.5 ^c	0.15	(47)	-12.8	Oklahoma	8.8	0.22	(24)	2.3
Hawaii	7.7	0.36	(45)	-10.5	Oregon	8.9	0.23	(18)	3.5
Idaho	8.8	0.39	(25)	2.3	Pennsylvania	9.0 ^c	0.11	(13)	4.7
Illinois	8.8	0.12	(22)	2.3	Rhode Island	9.6	0.41	(04)	11.6
Indiana	9.2 ^c	0.18	(07)	7.0	South Carolina	7.7 ^c	0.21	(44)	-10.5
Iowa	9.1	0.23	(12)	5.8	South Dakota	9.9 ^b	0.49	(01)	15.1
Kansas	8.7	0.25	(28)	1.2	Tennessee	8.9	0.18	(19)	3.5
Kentucky	8.9	0.21	(15)	3.5	Texas	8.3	0.10	(34)	-3.5
Louisiana	8.9	0.21	(16)	3.5	Utah	8.4	0.34	(33)	-2.3
Maine	9.0	0.36	(14)	4.7	Vermont	9.5	0.56	(05)	10.5
Maryland	8.1	0.19	(40)	-5.8	Virginia	8.2	0.16	(36)	-4.7
Massachusetts	8.7	0.16	(27)	1.2	Washington	8.8	0.18	(21)	2.3
Michigan	9.2 ^c	0.14	(08)	7.0	West Virginia	8.8	0.29	(23)	2.3
Minnesota	9.8 ^c	0.20	(02)	14.0	Wisconsin	9.3 ^c	0.18	(06)	8.1
Mississippi	7.4 ^c	0.24	(48)	-14.0	Wyoming	6.6 ^{bc}	0.54	(50)	-23.3
Missouri	8.9	0.18	(17)	3.5					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b Absolute percent difference between state rate and total U.S. rate is 15% or more.

^c Difference between state rate and total U.S. rate is statistically significant ($p \leq .0002$).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Table XVIII-17
NON-HODGKIN LYMPHOMAAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, 1996-2000

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	10.7	0.04							
HHigh Five States									
South Dakota	12.6 ^b	0.86	(01)	17.8					
Minnesota	12.2 ^c	0.36	(02)	14.0					
Ohio	12.0 ^c	0.23	(03)	12.1					
Rhode Island	12.0	0.73	(04)	12.1					
New Hampshire	12.0	0.72	(05)	12.1					
LLow Five States									
Georgia	9.5 ^c	0.28	(47)	-11.2					
Colorado	9.4	0.38	(48)	-12.1					
New Mexico	7.9 ^{bc}	0.48	(49)	-26.2					
District of Columbia	7.8 ^b	0.87	(50)	-27.1					
Wyoming	7.5 ^b	0.91	(51)	-29.9					
Alabama	9.6	0.33	(44)	-10.3	Montana	10.0	0.71	(38)	-6.5
Alaska	10.4	1.41	(32)	-2.8	Nebraska	10.9	0.55	(20)	1.9
Arizona	9.8	0.31	(40)	-8.4	Nevada	9.7	0.56	(41)	-9.3
Arkansas	11.1	0.44	(17)	3.7	New Hampshire	12.0	0.72	(05)	12.1
California	10.1 ^c	0.13	(36)	-5.6	New Jersey	11.6	0.26	(09)	8.4
Colorado	9.4	0.38	(48)	-12.1	New Mexico	7.9 ^{bc}	0.48	(49)	-26.2
Connecticut	10.2	0.38	(33)	-4.7	New York	10.6	0.17	(28)	-0.9
Delaware	9.7	0.80	(42)	-9.3	North Carolina	9.8	0.27	(39)	-8.4
District of Columbia	7.8 ^b	0.87	(50)	-27.1	North Dakota	11.4	0.86	(11)	6.5
Florida	10.5	0.16	(31)	-1.9	Ohio	12.0 ^c	0.23	(03)	12.1
Georgia	9.5 ^c	0.28	(47)	-11.2	Oklahoma	10.6	0.39	(26)	-0.9
Hawaii	9.5	0.59	(46)	-11.2	Oregon	10.8	0.39	(25)	0.9
Idaho	10.8	0.67	(24)	0.9	Pennsylvania	11.3	0.20	(14)	5.6
Illinois	11.3	0.22	(15)	5.6	Rhode Island	12.0	0.73	(04)	12.1
Indiana	11.8	0.32	(08)	10.3	South Carolina	9.7	0.38	(43)	-9.3
Iowa	10.8	0.40	(23)	0.9	South Dakota	12.6 ^b	0.86	(01)	17.8
Kansas	10.5	0.43	(30)	-1.9	Tennessee	11.0	0.32	(18)	2.8
Kentucky	11.4	0.39	(12)	6.5	Texas	10.2	0.18	(35)	-4.7
Louisiana	10.9	0.37	(21)	1.9	Utah	10.2	0.57	(34)	-4.7
Maine	11.6	0.65	(10)	8.4	Vermont	11.8	0.99	(07)	10.3
Maryland	10.6	0.34	(29)	-0.9	Virginia	10.1	0.29	(37)	-5.6
Massachusetts	11.0	0.29	(19)	2.8	Washington	10.8	0.31	(22)	0.9
Michigan	11.4	0.24	(13)	6.5	West Virginia	10.6	0.50	(27)	-0.9
Minnesota	12.2 ^c	0.36	(02)	14.0	Wisconsin	11.9 ^c	0.33	(06)	11.2
Mississippi	9.6	0.43	(45)	-10.3	Wyoming	7.5 ^b	0.91	(51)	-29.9
Missouri	11.2	0.31	(16)	4.7					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b Absolute percent difference between state rate and total U.S. rate is 15% or more.

^c Difference between state rate and total U.S. rate is statistically significant ($p \leq .0002$).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Table XVIII-18
NON-HODGKIN LYMPHOMAAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, 1996-2000

All Races, Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	7.0	0.03							
High Five States									
Minnesota	8.1 ^{bc}	0.25	(01)	15.7					
Vermont	7.9	0.68	(02)	12.9					
South Dakota	7.9	0.58	(03)	12.9					
Rhode Island	7.8	0.48	(04)	11.4					
Iowa	7.8	0.29	(05)	11.4					
Low Five States									
Georgia	6.0 ^c	0.18	(47)	-14.3					
Wyoming	6.0	0.70	(48)	-14.3					
Nevada	6.0	0.38	(49)	-14.3					
New Mexico	5.9 ^b	0.36	(50)	-15.7					
District of Columbia	4.6 ^{bc}	0.52	(51)	-34.3					
Alabama	6.4	0.22	(43)	-8.6	Montana	7.5	0.54	(08)	7.1
Alaska	7.0	1.02	(32)	0.0	Nebraska	7.4	0.38	(18)	5.7
Arizona	6.7	0.22	(38)	-4.3	Nevada	6.0	0.38	(49)	-14.3
Arkansas	7.0	0.29	(33)	0.0	New Hampshire	6.9	0.46	(34)	-1.4
California	6.6 ^c	0.09	(39)	-5.7	New Jersey	7.4	0.17	(16)	5.7
Colorado	7.0	0.27	(31)	0.0	New Mexico	5.9 ^b	0.36	(50)	-15.7
Connecticut	7.4	0.26	(14)	5.7	New York	7.0	0.11	(28)	0.0
Delaware	6.9	0.56	(36)	-1.4	North Carolina	6.4 ^c	0.17	(41)	-8.6
District of Columbia	4.6 ^{bc}	0.52	(51)	-34.3	North Dakota	7.3	0.61	(22)	4.3
Florida	6.5 ^c	0.11	(40)	-7.1	Ohio	7.8 ^c	0.15	(06)	11.4
Georgia	6.0 ^c	0.18	(47)	-14.3	Oklahoma	7.4	0.27	(15)	5.7
Hawaii	6.1	0.44	(45)	-12.9	Oregon	7.4	0.28	(13)	5.7
Idaho	7.2	0.48	(27)	2.9	Pennsylvania	7.4	0.13	(11)	5.7
Illinois	7.0	0.14	(29)	0.0	Rhode Island	7.8	0.48	(04)	11.4
Indiana	7.5	0.21	(10)	7.1	South Carolina	6.4	0.24	(42)	-8.6
Iowa	7.8	0.29	(05)	11.4	South Dakota	7.9	0.58	(03)	12.9
Kansas	7.3	0.30	(25)	4.3	Tennessee	7.3	0.21	(21)	4.3
Kentucky	7.4	0.25	(20)	5.7	Texas	6.9	0.12	(35)	-1.4
Louisiana	7.5	0.25	(09)	7.1	Utah	7.0	0.41	(30)	0.0
Maine	7.4	0.43	(19)	5.7	Vermont	7.9	0.68	(02)	12.9
Maryland	6.3	0.21	(44)	-10.0	Virginia	6.8	0.19	(37)	-2.9
Massachusetts	7.2	0.19	(26)	2.9	Washington	7.3	0.22	(23)	4.3
Michigan	7.6 ^c	0.17	(07)	8.6	West Virginia	7.4	0.35	(12)	5.7
Minnesota	8.1 ^{bc}	0.25	(01)	15.7	Wisconsin	7.4	0.22	(17)	5.7
Mississippi	6.0	0.28	(46)	-14.3	Wyoming	6.0	0.70	(48)	-14.3
Missouri	7.3	0.21	(24)	4.3					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

^b Absolute percent difference between state rate and total U.S. rate is 15% or more.

^c Difference between state rate and total U.S. rate is statistically significant ($p \leq .0002$).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Table XVIII-19
NON-HODGKIN LYMPHOMA (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2000
By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <10	0 to <25	>=25 ^f	Complete ^g
<u>Race/Sex</u>									
All Races ^b	144,844	77,015	43,437	23,792	12,350	221,859	301,438	12,962	314,400
Males	75,865	39,258	22,045	12,036	5,922	115,123	155,126	6,980	162,106
Females	68,979	37,757	21,392	11,756	6,428	106,736	146,312	5,982	152,294
White ^b	129,635	69,533	39,728	21,814	11,464	199,168	272,174	13,846	286,020
Males	67,559	35,232	20,212	11,076	5,551	102,791	139,630	7,966	147,596
Females	62,076	34,301	19,516	10,738	5,913	96,377	132,544	5,880	138,424
Black ^b	9,837	4,870	2,446	1,276	677	14,707	19,106	612	19,718
Males	5,449	2,623	1,215	617	-	8,072	10,172	318	10,490
Females	4,388	2,247	1,231	659	409	6,635	8,934	294	9,228
Asian/Pacific Islander ^c	3,020	1,477	+	+	+	4,497	+	+	+
Males	1,613	733	+	+	+	2,346	+	+	+
Females	1,407	744	+	+	+	2,151	+	+	+
Hispanic ^d	7,080	3,461	+	+	+	10,541	+	+	+
Males	3,814	1,694	+	+	+	5,508	+	+	+
Females	3,266	1,767	+	+	+	5,033	+	+	+

Estimated prevalence percent^a on January 1, 2000, of the SEER 11 population diagnosed in the previous 10 years
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence	Age Specific (Crude)										Age-Adjusted ^e
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
<u>Race/Sex</u>											
All Races ^c	0.0706%	0.0021%	0.0079%	0.0126%	0.0285%	0.0582%	0.1234%	0.2217%	0.3263%	0.3379%	0.0768%
Males	0.0746%	0.0034%	0.0110%	0.0150%	0.0340%	0.0688%	0.1429%	0.2496%	0.3644%	0.3854%	0.0883%
Females	0.0667%	-	0.0046%	0.0102%	0.0229%	0.0478%	0.1048%	0.1972%	0.2979%	0.3131%	0.0670%
White ^c	0.0782%	0.0020%	0.0084%	0.0131%	0.0294%	0.0609%	0.1308%	0.2391%	0.3508%	0.3516%	0.0815%
Males	0.0818%	0.0031%	0.0116%	0.0155%	0.0349%	0.0712%	0.1508%	0.2678%	0.3903%	0.4006%	0.0931%
Females	0.0746%	-	0.0049%	0.0105%	0.0235%	0.0506%	0.1112%	0.2131%	0.3211%	0.3265%	0.0713%
Black ^c	0.0397%	-	0.0053%	0.0123%	0.0273%	0.0552%	0.1020%	0.1369%	0.1533%	0.1670%	0.0515%
Males	0.0452%	-	0.0071%	0.0164%	0.0332%	0.0709%	0.1262%	0.1546%	0.1712%	0.2032%	0.0621%
Females	0.0347%	-	-	0.0087%	0.0220%	0.0414%	0.0817%	0.1228%	0.1415%	0.1508%	0.0429%
Asian/Pacific Islander ^c	0.0448%	-	0.0081%	0.0098%	0.0202%	0.0366%	0.0712%	0.1491%	0.2181%	0.2700%	0.0521%
Males	0.0479%	-	0.0115%	0.0105%	0.0230%	0.0418%	0.0785%	0.1681%	0.2509%	0.3071%	0.0596%
Females	0.0420%	-	-	0.0092%	0.0175%	0.0319%	0.0646%	0.1336%	0.1933%	0.2440%	0.0460%
Hispanic ^d	0.0297%	0.0024%	0.0062%	0.0088%	0.0184%	0.0399%	0.0837%	0.1553%	0.2634%	0.2533%	0.0562%
Males	0.0301%	0.0038%	0.0085%	0.0102%	0.0214%	0.0435%	0.0960%	0.1611%	0.2827%	0.2502%	0.0604%
Females	0.0293%	-	-	0.0073%	0.0151%	0.0364%	0.0726%	0.1506%	0.2496%	0.2549%	0.0522%

^a US 2000 cancer prevalence counts are based on 2000 cancer prevalence proportions from the SEER registries and 1/1/2000 US population estimates based on the average of 1999 and 2000 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

^{b c d} Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.

^e Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

^{f g} (f) Cases diagnosed 25 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (g) Complete prevalence is obtained by summing 0 to <25 with >=25.

- Statistics not shown. Rate based on less than 25 cases estimated alive for the time interval.

+ Not available.

SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Non-Hodgkin Lymphoma, by Race and Sex

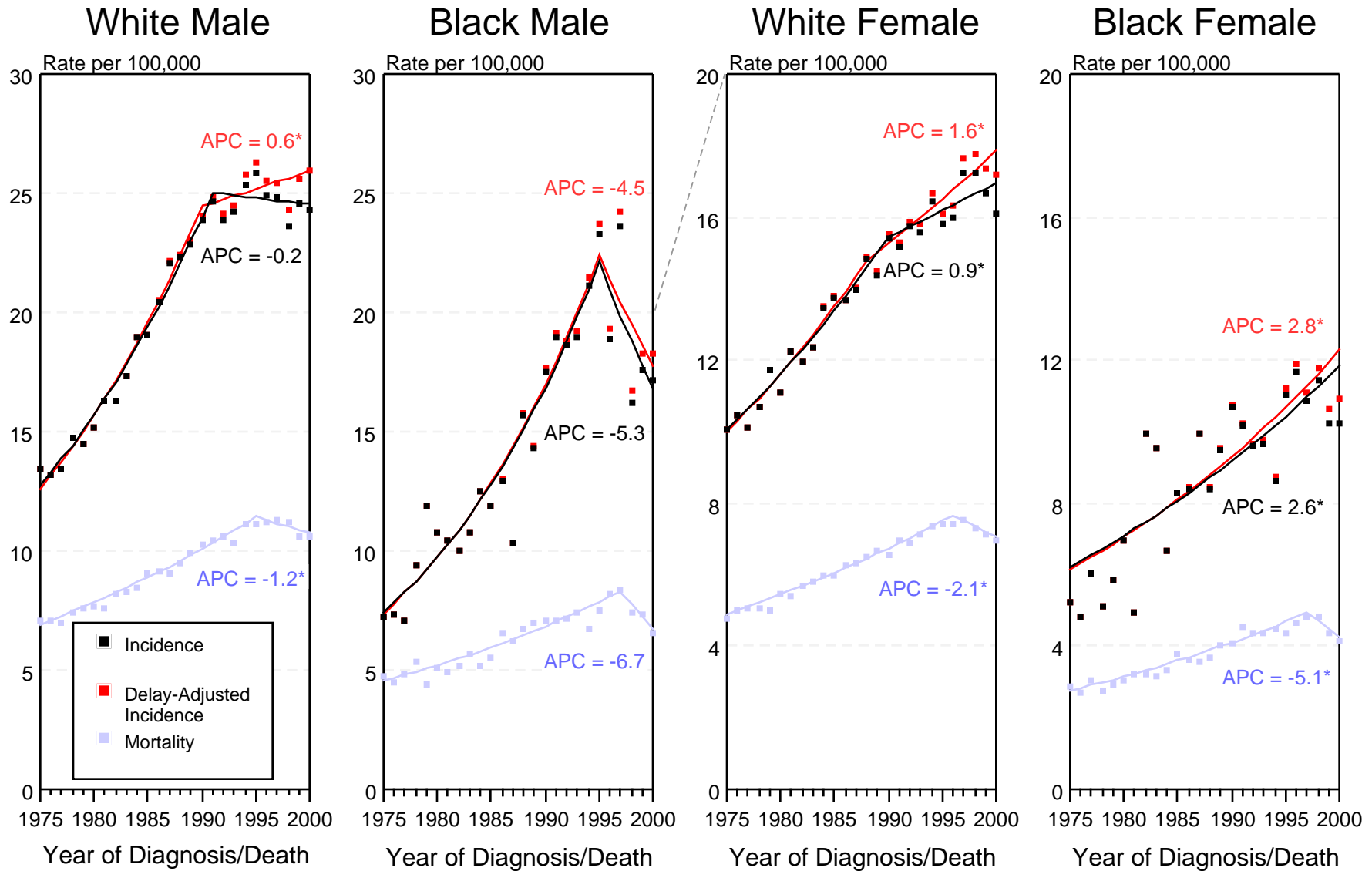


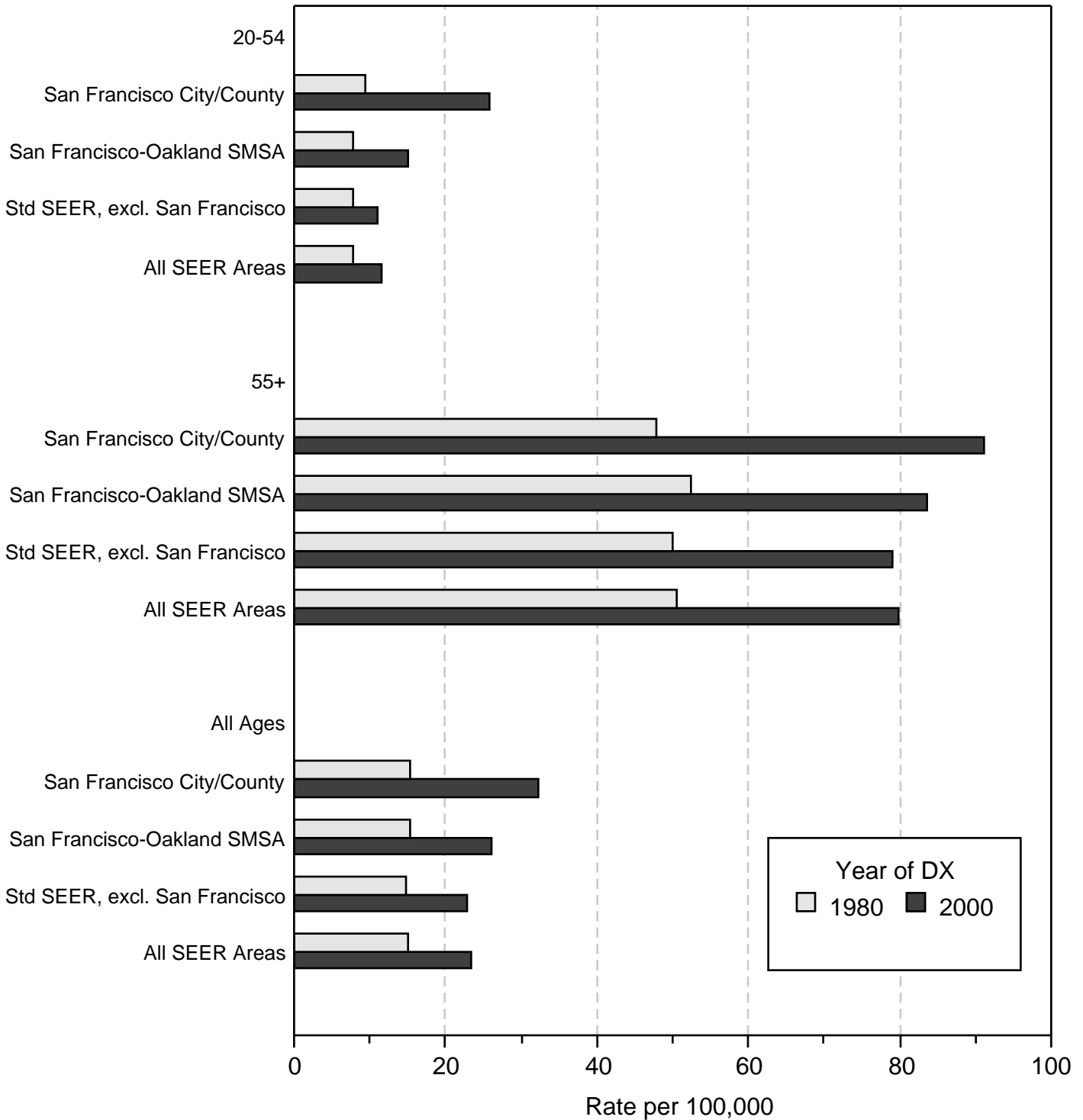
Figure XVIII-1

+ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

* The APC is significantly different from zero ($p < 0.05$).

Non-Hodgkin Lymphoma Incidence Rates Males

Age/Area



Source: SEER 9 areas. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups.

Non-Hodgkin Lymphoma SEER Incidence by Age 1975-1977 vs 1998-2000 All Races, Males

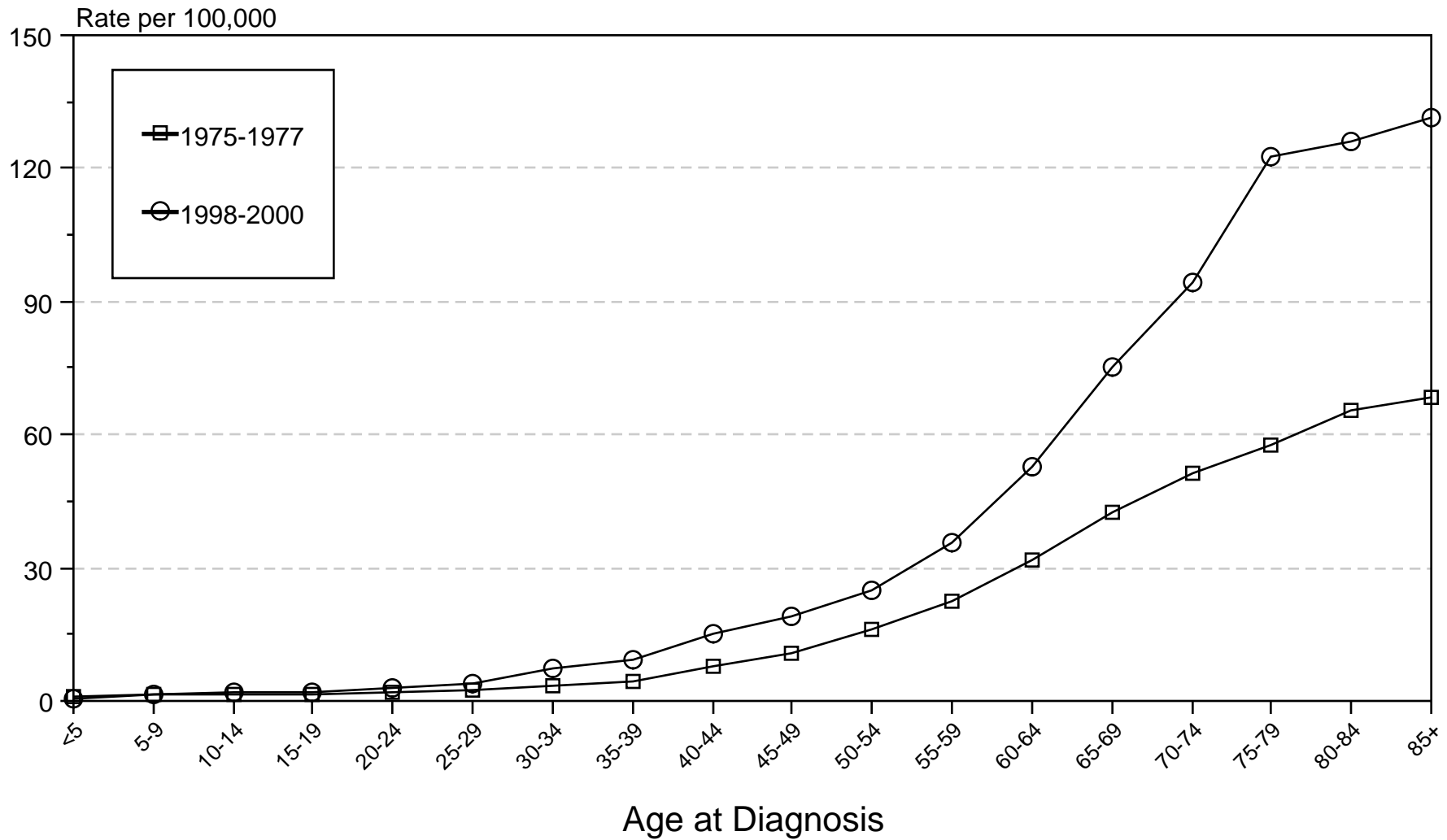


Figure XVIII-3

Source: SEER 9 areas. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups.