

Table XVIII-1  
NON-HODGKIN LYMPHOMA (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> AND U.S. MORTALITY<sup>b</sup> USING THE JOINTPOINT REGRESSION PROGRAM, 1975-2001  
WITH UP TO THREE JOINTPOINTS BY RACE AND SEX

		<u>Jointpoint Segment 1</u>		<u>Jointpoint Segment 2</u>		<u>Jointpoint Segment 3</u>		<u>Jointpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence<sup>a</sup></u>									
All Races	Male and Female	1975-1990	3.6 <sup>c</sup>	1990-1995	1.5 <sup>c</sup>	1995-2001	-0.6		
All Races	Male	1975-1991	4.3 <sup>c</sup>	1991-2001	-0.1				
All Races	Female	1975-1988	3.0 <sup>c</sup>	1988-1998	1.5 <sup>c</sup>	1998-2001	-1.6		
White	Male and Female	1975-1991	3.7 <sup>c</sup>	1991-2001	0.2				
White	Male	1975-1991	4.3 <sup>c</sup>	1991-2001	-0.2				
White	Female	1975-1988	3.0 <sup>c</sup>	1988-1998	1.6 <sup>c</sup>	1998-2001	-2.0		
Black	Male and Female	1975-1995	4.5 <sup>c</sup>	1995-2001	-2.3				
Black	Male	1975-1995	5.6 <sup>c</sup>	1995-2001	-4.6 <sup>c</sup>				
Black	Female	1975-2001	2.7 <sup>c</sup>						
<u>SEER Delay-Adjusted Incidence<sup>a</sup></u>									
All Races	Male and Female	1975-1991	3.7 <sup>c</sup>	1991-2001	0.5 <sup>c</sup>				
All Races	Male	1975-1991	4.3 <sup>c</sup>	1991-2001	0.1				
All Races	Female	1975-1990	2.9 <sup>c</sup>	1990-2001	1.1 <sup>c</sup>				
White	Male and Female	1975-1991	3.7 <sup>c</sup>	1991-2001	0.6 <sup>c</sup>				
White	Male	1975-1991	4.3 <sup>c</sup>	1991-2001	0.2				
White	Female	1975-1990	2.9 <sup>c</sup>	1990-2001	1.2 <sup>c</sup>				
Black	Male and Female	1975-1995	4.6 <sup>c</sup>	1995-2001	-1.6				
Black	Male	1975-1995	5.6 <sup>c</sup>	1995-2001	-3.9				
Black	Female	1975-2001	2.9 <sup>c</sup>						
<u>U.S. Cancer Mortality<sup>b</sup></u>									
All Races	Male and Female	1975-1991	2.5 <sup>c</sup>	1991-1997	1.6 <sup>c</sup>	1997-2001	-3.1 <sup>c</sup>		
All Races	Male	1975-1996	2.5 <sup>c</sup>	1996-2001	-2.4 <sup>c</sup>				
All Races	Female	1975-1996	2.2 <sup>c</sup>	1996-2001	-2.5 <sup>c</sup>				
White	Male and Female	1975-1996	2.3 <sup>c</sup>	1996-2001	-2.4 <sup>c</sup>				
White	Male	1975-1996	2.5 <sup>c</sup>	1996-2001	-2.4 <sup>c</sup>				
White	Female	1975-1996	2.2 <sup>c</sup>	1996-2001	-2.5 <sup>c</sup>				
Black	Male and Female	1975-1997	2.7 <sup>c</sup>	1997-2001	-4.2 <sup>c</sup>				
Black	Male	1975-1997	2.7 <sup>c</sup>	1997-2001	-4.6 <sup>c</sup>				
Black	Female	1975-1997	2.6 <sup>c</sup>	1997-2001	-3.5 <sup>c</sup>				

Jointpoint Regression Program Version 2.7, September 2003, National Cancer Institute. (<http://srab.cancer.gov/jointpoint/>).

<sup>a</sup> The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups. Trends are from the SEER 9 areas.

<sup>b</sup> Trends are from the NCHS public use data file for the total US.

<sup>c</sup> The APC is significantly different from zero (p<.05).

Table XVIII-2  
NON-HODGKIN LYMPHOMA

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>a</sup>, 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	7.2	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	14.6	11.8	8.5	12.0	5.9
1980	12.6	15.0	10.8	12.9	15.2	11.2	8.7	10.9	7.0
1981	13.6	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	14.0	18.2	22.4	14.9	11.6	15.8	8.5
1989	17.3	21.6	13.8	18.3	22.9	14.4	11.7	14.3	9.8
1990	18.5	23.0	14.8	19.3	24.0	15.5	13.8	17.6	10.7
1991	18.8	23.7	14.5	19.6	24.7	15.2	14.0	18.8	10.3
1992	18.6	23.1	14.9	19.6	24.0	15.8	13.6	18.7	9.6
1993	18.9	23.5	15.0	19.6	24.3	15.7	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	25.3	15.3	20.6	26.1	15.9	16.4	23.4	11.1
1996	19.3	24.1	15.3	20.1	25.0	16.0	15.0	18.9	11.7
1997	19.9	24.3	16.4	20.8	25.1	17.4	16.2	23.7	10.9
1998	19.3	22.7	16.5	20.3	23.8	17.4	13.7	16.3	11.6
1999	19.5	24.1	15.8	20.4	25.0	16.8	13.5	17.7	10.3
2000	19.2	23.7	15.7	20.3	24.9	16.5	13.5	17.6	10.4
2001	19.0	23.1	15.6	19.7	24.0	16.2	14.9	17.0	12.9
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
All ages	19.4	23.6	16.0	20.3	24.5	16.9	14.3	18.4	11.2
Under 65	9.7	11.8	7.6	10.0	12.1	8.0	9.3	11.9	7.0
65 and over	86.5	105.3	73.8	91.3	110.8	78.3	49.1	62.8	40.8
All ages(IARC world std) <sup>b</sup>	13.0	15.8	10.6	13.7	16.4	11.2	10.4	13.2	8.0
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	0.6	0.8	-	0.6	-	-	-	-	-
5-9	1.0	1.4	0.5	1.0	1.3	-	-	-	-
10-14	1.3	1.8	0.8	1.3	1.9	0.8	-	-	-
15-19	1.6	2.2	1.1	1.7	2.3	1.1	-	-	-
20-24	2.3	3.0	1.7	2.3	3.0	1.7	2.3	-	-
25-29	3.4	4.1	2.7	3.3	4.0	2.7	4.4	6.2	-
30-34	5.6	7.5	3.6	5.6	7.5	3.6	6.8	9.5	4.3
35-39	7.7	9.8	5.6	7.5	9.2	5.6	10.6	15.7	6.2
40-44	11.6	15.0	8.2	11.7	15.1	8.3	13.9	18.6	9.8
45-49	15.8	19.3	12.4	16.3	19.6	12.9	16.5	21.8	11.9
50-54	22.0	26.2	18.1	22.7	27.1	18.4	21.4	26.3	17.3
55-59	32.3	36.6	28.1	34.3	38.5	30.2	25.4	31.1	20.6
60-64	43.8	52.2	36.1	47.1	55.5	39.3	31.4	35.5	28.1
65-69	63.4	75.3	53.2	67.4	79.0	57.2	45.1	56.0	37.0
70-74	82.1	97.7	69.9	87.5	103.0	75.1	47.5	63.6	36.5
75-79	100.9	122.0	86.1	107.2	130.3	91.1	44.5	52.0	39.8
80-84	104.3	127.3	90.4	109.3	132.6	95.3	56.8	76.6	46.5
85+	100.7	132.9	87.2	103.8	138.4	89.7	60.2	79.3	53.0

<sup>a</sup> 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.

<sup>b</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the IARC 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<sup>a</sup>, 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	10.2	6.7	8.5	10.6	7.0	5.2	6.6	4.2
2001	7.9	9.9	6.4	8.2	10.2	6.7	5.6	7.3	4.5
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	8.4	10.5	6.9	8.7	10.8	7.2	5.7	7.4	4.6
Under 65	2.7	3.4	2.0	2.7	3.5	2.0	2.8	3.7	2.0
65 and over	47.7	59.2	40.5	50.1	61.9	42.6	26.4	33.4	22.3
All ages(IARC world std) <sup>b</sup>	4.9	6.1	3.9	5.1	6.3	4.1	3.8	4.9	2.9
<u>AGE-SPECIFIC RATES, 1997-2001</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	0.4	-
20-24	0.6	0.7	0.4	0.5	0.7	0.4	0.7	1.0	0.5
25-29	0.7	0.9	0.5	0.7	0.8	0.5	1.1	1.4	0.8
30-34	1.0	1.4	0.7	1.0	1.4	0.6	1.3	1.6	1.0
35-39	1.5	2.0	1.1	1.5	1.9	1.0	2.4	3.3	1.6
40-44	2.3	3.1	1.5	2.3	3.1	1.5	3.0	4.0	2.1
45-49	3.8	5.1	2.6	3.8	5.0	2.6	4.7	6.4	3.2
50-54	6.3	8.2	4.4	6.4	8.3	4.6	6.5	9.2	4.1
55-59	10.6	13.2	8.2	11.0	13.6	8.6	9.8	12.5	7.6
60-64	16.8	20.3	13.5	17.6	21.1	14.3	13.0	16.6	10.2
65-69	25.4	31.1	20.5	26.7	32.6	21.6	17.6	22.3	14.2
70-74	38.1	46.5	31.5	40.0	48.6	33.1	23.9	30.5	19.6
75-79	54.1	65.9	45.9	56.7	68.7	48.3	28.1	36.5	23.1
80-84	71.6	87.2	62.4	75.1	91.3	65.6	34.8	41.2	31.6
85+	78.4	103.0	68.4	82.1	107.9	71.7	37.9	50.0	33.3

<sup>a</sup> NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

<sup>b</sup> NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the IARC 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 <sup>a</sup>	-	-	-	31	31	31	-	-	-
1970-1973 <sup>a</sup>	-	-	-	41	39	43	-	-	-
1974-1976 <sup>b</sup>	47.3	47.2	47.4	47.8	48.2	47.5	48.6	44.3 <sup>d</sup>	54.1 <sup>d</sup>
1977-1979 <sup>b</sup>	48.5	45.9	51.2	48.7	46.5	50.9	51.6	45.0	60.2 <sup>d</sup>
1980-1982 <sup>b</sup>	51.4	50.2	52.6	51.9	51.0	52.9	50.5	47.8	53.7
1983-1985 <sup>b</sup>	54.0	52.8	55.2	54.5	53.5	55.5	45.1	43.6	46.9
1986-1988 <sup>b</sup>	52.3	49.4	55.8	52.8	50.1	56.2	50.4	47.0	54.8
1989-1991 <sup>b</sup>	51.3	47.1	56.6	52.1	47.8	57.4	43.7	38.3	51.2
1992-1994 <sup>b</sup>	53.3	48.6	59.4	54.4	49.9	60.0	42.3	36.8	52.4
1995-2000 <sup>b</sup>	59.1 <sup>c</sup>	57.0 <sup>c</sup>	61.7 <sup>c</sup>	60.3 <sup>c</sup>	58.4 <sup>c</sup>	62.6 <sup>c</sup>	50.5	46.3	56.7
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2000<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	63.3	58.8	72.9	65.4	60.6	75.8	50.2	46.0	58.7
45-54	68.7	63.5	76.9	70.3	64.9	78.6	59.5	55.6	65.7
55-64	64.6	60.9	69.1	65.7	62.6	69.5	53.7	42.6 <sup>d</sup>	67.1 <sup>d</sup>
65-74	57.8	55.6	60.1	59.2	56.7	61.6	43.8	38.2 <sup>d</sup>	50.0 <sup>d</sup>
75+	43.9	44.4	43.7	45.1	45.7	44.7	33.7 <sup>d</sup>	41.0 <sup>d</sup>	28.8 <sup>d</sup>
Under 65	65.3	60.8	72.6	66.9	62.5	74.0	53.6	48.2	62.8
65 and over	51.5	51.1	52.0	52.7	52.2	53.2	39.9	39.0 <sup>d</sup>	41.4

- <sup>a</sup> Rates are based on End Results data from a series of hospital registries and one population-based registry.
- <sup>b</sup> 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 2001.
- <sup>c</sup> The difference in rates between 1974-1976 and 1995-2000 is statistically significant ( $p < .05$ ).
- <sup>d</sup> The standard error of the survival rate is between 5 and 10 percentage points.
- <sup>e</sup> The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table XVIII-5  
NON-HODGKIN LYMPHOMA

SURVIVAL RATES<sup>a</sup>

By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Relative Survival Rates (SEER <sup>b</sup> )																		
1-year	71.2	74.1	72.9	71.0	73.1	72.0	71.3	70.7	70.4	71.4	71.7	71.2	70.6	73.6	76.4	77.1	77.7	77.0
2-year	60.9	64.8	64.2	62.6	64.1	63.0	63.1	61.5	61.3	62.8	63.8	63.5	62.4	66.1	68.8	70.4	70.9	
3-year	55.5	59.7	59.7	58.6	59.3	59.2	58.0	57.0	57.1	58.7	59.3	59.2	58.0	62.7	65.5	67.0		
4-year	51.8	56.0	56.1	54.9	56.2	55.3	54.5	53.1	54.5	55.5	56.5	55.9	55.4	59.6	62.9			
5-year	48.4	52.6	53.5	51.5	53.0	52.4	51.2	50.8	51.8	52.5	53.8	53.7	53.0	57.1				
6-year	45.3	49.6	51.3	48.9	50.2	50.3	48.7	48.6	49.1	50.1	51.9	52.0	50.9					
7-year	42.9	47.4	48.5	47.2	48.0	48.4	46.6	46.0	46.3	47.8	50.3	50.3						
8-year	41.0	45.5	46.6	45.0	45.6	46.3	43.9	44.2	44.2	46.5	48.3							
9-year	39.3	43.7	45.0	43.0	43.7	44.7	42.4	43.0	42.6	45.6								
10-year	38.1	42.1	43.5	41.4	42.6	43.5	40.6	42.1	41.6									
11-year	36.9	41.0	42.3	40.9	41.5	42.3	39.1	40.4										
12-year	36.0	39.9	41.3	39.5	40.2	40.9	37.6											
13-year	35.3	39.0	39.7	38.2	39.5	40.1												
14-year	34.3	38.1	38.7	37.6	38.5													
15-year	33.3	37.1	38.1	36.8														
16-year	32.5	36.4	37.1															
17-year	32.3	35.9																
18-year	32.0																	
19-year	31.5																	
20-year	31.0																	

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XVIII-6  
NON-HODGKIN LYMPHOMA

SURVIVAL RATES<sup>a</sup>

By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Relative Survival Rates (SEER <sup>b</sup> )																			
1-year	70.4	73.7	71.8	70.1	69.7	68.9	68.4	66.4	66.8	68.5	68.4	67.9	67.3	71.7	75.7	75.6	76.4	76.3	
2-year	60.2	64.8	63.0	61.5	60.9	60.2	59.2	57.5	57.1	58.3	59.5	60.0	59.1	63.9	67.6	69.0	69.4		
3-year	54.3	59.4	58.1	57.4	56.3	55.6	54.0	52.5	52.6	54.5	54.7	55.3	55.0	60.5	64.6	65.7			
4-year	50.5	55.4	53.7	52.9	52.7	51.5	50.2	48.7	49.9	50.9	51.8	52.0	52.3	57.1	61.9				
5-year	46.8	51.9	50.5	49.6	49.9	48.8	46.9	46.5	47.9	47.1	49.0	49.5	49.6	54.7					
6-year	44.1	48.7	47.9	46.5	47.2	47.1	44.3	44.9	45.2	45.4	47.1	48.2	47.6						
7-year	41.8	46.4	45.0	44.7	45.7	45.3	41.6	42.3	42.5	43.2	46.4	46.9							
8-year	40.0	44.6	43.1	42.3	43.1	44.2	39.2	40.9	40.3	42.0	44.5								
9-year	38.1	42.9	41.3	40.4	40.8	42.9	38.0	39.7	38.6	41.1									
10-year	36.9	41.1	40.2	38.9	39.8	41.8	36.6	38.9	37.8										
11-year	35.8	39.8	39.1	37.9	38.8	40.8	35.1	37.7											
12-year	35.1	39.0	37.8	37.0	37.8	39.6	33.5												
13-year	34.2	38.4	36.4	35.9	37.6	39.2													
14-year	33.1	37.7	35.9	34.8	36.5														
15-year	31.8	36.9	35.9	33.7															
16-year	31.0	35.9	35.3																
17-year	30.8	35.6																	
18-year	30.8																		
19-year	30.5																		
20-year	30.3																		

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XVIII-7  
NON-HODGKIN LYMPHOMA

SURVIVAL RATES<sup>a</sup>

By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Relative Survival Rates (SEER <sup>b</sup> )																			
1-year	72.0	74.5	74.1	72.2	77.2	75.7	75.0	75.9	75.1	75.1	75.8	75.5	75.0	76.0	77.2	78.8	79.2	77.7	
2-year	61.8	64.8	65.4	63.8	68.0	66.5	68.0	66.5	66.9	68.4	69.3	68.0	66.7	68.9	70.3	72.0	72.6		
3-year	56.8	60.1	61.4	59.9	63.0	63.5	62.9	62.5	63.1	63.9	65.0	64.2	62.0	65.5	66.7	68.5			
4-year	53.2	56.7	58.8	57.1	60.3	59.7	59.7	58.5	60.6	61.3	62.5	60.9	59.6	62.6	64.2				
5-year	49.9	53.3	56.8	53.8	56.8	56.7	56.6	56.1	57.1	59.2	60.0	59.0	57.5	60.0					
6-year	46.5	50.5	55.1	51.6	53.8	54.3	54.2	53.1	54.4	56.0	57.9	56.8	55.3						
7-year	44.1	48.4	52.4	50.1	50.8	52.0	52.8	50.6	51.4	53.6	55.3	54.7							
8-year	41.9	46.4	50.4	48.2	48.8	48.9	49.7	48.3	49.5	52.2	53.1								
9-year	40.5	44.5	49.2	46.0	47.3	46.9	47.9	47.1	48.0	51.3									
10-year	39.4	43.1	47.1	44.4	46.1	45.5	45.7	46.2	46.7										
11-year	37.9	42.2	45.9	44.4	44.9	44.1	44.2	43.8											
12-year	36.8	40.8	45.2	42.4	43.2	42.5	42.7												
13-year	36.5	39.6	43.5	41.0	41.8	41.1													
14-year	35.6	38.6	41.9	41.0	41.0														
15-year	34.7	37.3	40.6	40.7															
16-year	33.9	36.8	39.0																
17-year	33.9	36.2																	
18-year	33.3																		
19-year	32.5																		
20-year	31.7																		

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XVIII-8

NON-HODGKIN LYMPHOMANUMBER OF CASES

By SEER Location and Year of Diagnosis, 1976-2001

All Races, Males, All Ages

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	1982	2243	2503	2696	3168	3621	3984	4572	4738	5308	5221	5187	5358
All Areas but SF-Oakland	1623	1848	2086	2260	2593	2815	3082	3504	3689	4138	4210	4298	4369
San Francisco- Oakland SMSA	359	395	417	436	575	806	902	1068	1049	1170	1011	889	989
San Francisco City/County	103	90	96	122	210	325	392	469	417	447	355	213	238

AGE-ADJUSTED CANCER INCIDENCE RATES<sup>a</sup>

By SEER Location and Year of Diagnosis, 1976-2001

All Races, Males, All Ages

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	12.9	14.2	15.4	16.1	18.3	20.1	21.5	23.4	23.3	25.1	24.2	23.4	23.4
All Areas but SF-Oakland	12.6	14.0	15.4	16.1	18.0	18.8	20.0	21.6	21.8	23.5	23.4	23.2	22.8
San Francisco- Oakland SMSA	14.1	15.6	15.8	16.0	19.5	26.7	28.5	31.8	30.9	33.6	28.8	24.9	26.8
San Francisco City/County	14.8	13.6	14.4	17.5	29.3	44.3	51.8	61.1	53.1	56.9	44.9	27.4	29.9

<sup>a</sup> 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.

<sup>b</sup> 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, 1976-2001

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	86	87	89	108	89	93	85	100	88	118	105	106	118
All Areas but SF-Oakland	77	72	80	95	80	80	77	86	73	105	84	93	98
San Francisco- Oakland SMSA	9	15	9	13	9	13	8	14	15	13	21	13	20
San Francisco City/County	<4	5	<4	<4	<4	<4	0	<4	<4	<4	<4	<4	0

AGE-ADJUSTED CANCER INCIDENCE RATES<sup>a</sup>

By SEER Location and Year of Diagnosis, 1976-2001

All Races, Males, Ages 0-19

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	1.2	1.2	1.3	1.6	1.3	1.4	1.3	1.5	1.3	1.6	1.4	1.4	1.5
All Areas but SF-Oakland	1.2	1.2	1.3	1.6	1.4	1.4	1.3	1.5	1.2	1.7	1.3	1.4	1.5
San Francisco- Oakland SMSA	1.0	1.6	1.0	1.5	1.0	1.5	0.9	1.5	1.6	1.3	2.1	1.3	1.9
San Francisco City/County	-	3.3	-	-	-	-	0.0	-	-	-	-	-	0.0

<sup>a</sup> 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.

<sup>b</sup> 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, 1976-2001

All Races, Males, Ages 20-54

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	555	615	686	719	954	1209	1409	1765	1837	2082	1745	1591	1623
All Areas but SF-Oakland	460	509	561	585	726	825	917	1190	1294	1470	1299	1253	1269
San Francisco- Oakland SMSA	95	106	125	134	228	384	492	575	543	612	446	338	354
San Francisco City/County	24	19	29	34	105	215	289	335	306	317	226	104	108

AGE-ADJUSTED CANCER INCIDENCE RATES<sup>a</sup>

By SEER Location and Year of Diagnosis, 1976-2001

All Races, Males, Ages 20-54

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	6.5	7.2	7.9	8.2	10.4	12.4	13.5	15.9	15.7	16.9	13.6	12.0	11.8
All Areas but SF-Oakland	6.6	7.2	7.8	8.0	9.7	10.2	10.8	13.1	13.4	14.3	12.1	11.3	11.0
San Francisco- Oakland SMSA	6.5	7.1	8.5	8.9	13.9	22.6	26.6	29.7	27.0	30.0	21.3	15.5	15.7
San Francisco City/County	7.3	5.2	8.8	9.4	27.2	56.6	71.8	81.7	72.9	74.4	51.2	22.7	23.4

<sup>a</sup> 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.

<sup>b</sup> 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, 1976-2001

All Races, Males, Ages 55+

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	1341	1541	1728	1869	2125	2319	2490	2707	2813	3108	3371	3490	3617
All Areas but SF-Oakland	1086	1267	1445	1580	1787	1910	2088	2228	2322	2563	2827	2952	3002
San Francisco-Oakland SMSA	255	274	283	289	338	409	402	479	491	545	544	538	615
San Francisco City/County	76	66	65	87	104	108	103	132	110	127	126	107	130

AGE-ADJUSTED CANCER INCIDENCE RATES<sup>a</sup>

By SEER Location and Year of Diagnosis, 1976-2001

All Races, Males, Ages 55+

Year of Diagnosis

SEER Location	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- 2001
All Areas <sup>b</sup>	43.3	48.2	52.1	53.9	59.5	63.3	67.1	70.2	70.7	75.9	79.7	79.8	79.9
All Areas but SF-Oakland	42.1	47.1	52.0	54.2	59.9	62.0	66.6	68.8	69.1	74.2	79.3	80.0	78.7
San Francisco-Oakland SMSA	49.3	54.2	52.5	52.0	57.5	70.0	69.9	77.6	79.3	85.1	82.0	78.4	86.2
San Francisco City/County	49.9	47.0	44.6	59.2	72.7	73.4	74.4	93.3	77.3	89.2	87.3	73.3	85.4

<sup>a</sup> 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.

<sup>b</sup> 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 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

1999-2001

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	2.18	0.00	0.02	0.04	1.80
10	0.02	0.05	0.13	2.20	0.01	0.03	0.08	1.82
20	0.04	0.12	0.27	2.19	0.02	0.07	0.17	1.81
30	0.08	0.24	0.53	2.18	0.05	0.15	0.35	1.79
40	0.16	0.46	0.98	2.14	0.10	0.31	0.69	1.76
50	0.31	0.85	1.53	2.05	0.21	0.61	1.16	1.70
60	0.58	1.32	1.79	1.88	0.42	1.00	1.45	1.56

Lifetime Risk of Being Diagnosed = 2.18%  
Lifetime Risk of Dying = 0.95%

Lifetime Risk of Being Diagnosed = 1.80%  
Lifetime Risk of Dying = 0.83%

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	2.31	0.01	0.02	0.04	1.91
10	0.02	0.05	0.13	2.33	0.01	0.03	0.08	1.92
20	0.04	0.11	0.28	2.33	0.02	0.07	0.17	1.92
30	0.08	0.25	0.56	2.32	0.05	0.15	0.37	1.90
40	0.17	0.48	1.05	2.27	0.10	0.32	0.75	1.87
50	0.33	0.91	1.64	2.18	0.23	0.67	1.25	1.80
60	0.62	1.41	1.90	1.99	0.46	1.07	1.54	1.64

Lifetime Risk of Being Diagnosed = 2.31%  
Lifetime Risk of Dying = 1.01%

Lifetime Risk of Being Diagnosed = 1.91%  
Lifetime Risk of Dying = 0.89%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.01	0.05	1.21	0.00	0.01	0.04	1.04
10	0.01	0.04	0.15	1.24	0.01	0.04	0.10	1.06
20	0.03	0.14	0.31	1.24	0.03	0.08	0.18	1.05
30	0.11	0.28	0.52	1.24	0.06	0.16	0.32	1.03
40	0.18	0.42	0.73	1.17	0.10	0.26	0.48	0.99
50	0.26	0.59	0.89	1.06	0.17	0.40	0.67	0.93
60	0.38	0.72	0.90	0.93	0.25	0.55	0.78	0.83

Lifetime Risk of Being Diagnosed = 1.21%  
Lifetime Risk of Dying = 0.50%

Lifetime Risk of Being Diagnosed = 1.04%  
Lifetime Risk of Dying = 0.43%

Table XVIII-13  
NON-HODGKIN LYMPHOMA (Invasive)

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

By Race/Ethnicity and Sex

Incidence<sup>a</sup>

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	19.1	23.3	15.7	0.0	-0.5	0.8 <sup>d</sup>
White	20.1	24.4	16.6	0.0	-0.5	0.8 <sup>d</sup>
White Hispanic <sup>b</sup>	16.3	19.1	13.9	-0.7	-1.6	0.5
White Non-Hispanic <sup>b</sup>	20.6	25.1	16.9	0.0	-0.5	0.8 <sup>d</sup>
Black	14.6	18.3	11.7	0.2	-1.5	2.9 <sup>d</sup>
Asian/Pacific Islander	13.7	16.7	11.4	0.8	0.3	1.3
Amer Ind/Alaska Nat	8.7	9.7	7.7	2.6	-	-
Hispanic <sup>b</sup>	15.8	18.5	13.5	-0.6	-1.4	0.6

Mortality<sup>c</sup>

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	8.4	10.5	6.9	-0.4	-0.3	-0.5
White	8.7	10.8	7.2	-0.4	-0.3	-0.5
White Hispanic <sup>b</sup>	6.7	8.2	5.5	-0.3	-0.5	0.0
White Non-Hispanic <sup>b</sup>	8.8	11.0	7.2	-0.2	0.0	-0.4
Black	5.7	7.4	4.6	-0.3	-0.3	-0.2
Asian/Pacific Islander	5.2	6.7	4.1	-1.1 <sup>d</sup>	-1.4	-0.6
Amer Ind/Alaska Nat	5.0	5.9	4.4	5.1 <sup>d</sup>	5.0 <sup>d</sup>	5.1 <sup>d</sup>
Hispanic <sup>b</sup>	6.5	8.1	5.3	-0.2	-0.4	0.1

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.

<sup>a</sup> 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).

<sup>b</sup> 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, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.

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

<sup>d</sup> The APC is significantly different from zero (p<.05).

Table XVIII-14  
NON-HODGKIN LYMPHOMAAGE-ADJUSTED SEER INCIDENCE RATES<sup>a</sup> AND SEER DEATH RATES<sup>b</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES<sup>a</sup>, 1997-2001</u>									
REGISTRY									
12 registries	19.1	23.3	15.7	20.1	24.4	16.6	14.6	18.3	11.7
11 registries	19.1	23.3	15.8	20.1	24.4	16.6	14.6	18.3	11.7
9 registries	19.4	23.6	16.0	20.3	24.5	16.9	14.3	18.4	11.2
San Francisco-Oakland	20.5	26.0	16.0	22.5	28.3	17.6	15.8	21.4	11.2
Connecticut	20.5	24.8	17.1	20.9	25.1	17.5	13.7	18.8	10.4
Metropolitan Detroit	20.0	24.3	16.7	21.3	25.7	18.0	14.7	18.3	12.1
Hawaii	15.7	18.9	12.8	18.2	20.7	16.0	-	-	-
Iowa	19.3	22.6	16.7	19.3	22.6	16.7	13.2	-	-
New Mexico	15.1	17.8	12.8	15.4	18.3	13.0	-	-	-
Seattle-Puget Sound	21.1	25.3	17.7	21.6	25.9	18.1	15.3	19.7	11.3
Utah	18.4	23.1	14.5	18.7	23.4	14.8	-	-	-
Metropolitan Atlanta	17.4	21.2	14.3	18.8	22.8	15.5	13.1	16.5	10.6
San Jose-Monterey	19.2	22.2	16.8	19.9	23.0	17.3	14.8	-	-
Los Angeles	18.2	22.5	14.7	19.3	24.1	15.5	15.2	18.2	12.8
<u>SEER DEATH RATES<sup>b</sup>, 1997-2001</u>									
REGISTRY									
12 registries	8.1	10.1	6.5	8.6	10.6	7.0	6.0	7.7	4.8
11 registries	8.1	10.1	6.5	8.6	10.6	7.0	6.0	7.7	4.8
9 registries	8.2	10.3	6.7	8.7	10.7	7.1	5.9	7.8	4.5
San Francisco-Oakland	8.1	10.3	6.5	9.1	11.5	7.2	6.2	8.1	5.0
Connecticut	8.5	10.2	7.2	8.7	10.4	7.4	6.1	9.1	4.5
Metropolitan Detroit	8.6	11.0	6.9	9.2	11.6	7.5	6.1	8.3	4.5
Hawaii	7.0	9.0	5.3	7.7	10.2	5.4	-	-	-
Iowa	8.6	10.4	7.4	8.6	10.4	7.4	-	-	-
New Mexico	6.8	8.1	5.7	6.9	8.3	5.8	-	-	-
Seattle-Puget Sound	8.7	10.9	7.0	8.9	11.2	7.1	6.9	-	-
Utah	8.4	10.6	6.6	8.4	10.7	6.6	-	-	-
Metropolitan Atlanta	7.6	9.6	6.2	8.4	10.4	6.9	5.2	6.8	4.1
San Jose-Monterey	7.3	8.9	6.0	7.7	9.3	6.4	-	-	-
Los Angeles	7.7	9.7	6.1	8.3	10.6	6.6	6.3	7.6	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.  
<sup>a</sup> 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.  
<sup>b</sup> NCHS public use data file for the total US. 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-15  
NON-HODGKIN LYMPHOMA

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, ALL RACES, 1997-2001

Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	8.4	0.02		
High Five States				
South Dakota	10.4 <sup>bc</sup>	0.50	(01)	23.8
Minnesota	9.4 <sup>c</sup>	0.20	(02)	11.9
Ohio	9.4 <sup>c</sup>	0.13	(03)	11.9
Rhode Island	9.4	0.40	(04)	11.9
Indiana	9.2 <sup>c</sup>	0.18	(05)	9.5
Low Five States				
Mississippi	7.2 <sup>c</sup>	0.23	(47)	-14.3
Hawaii	7.0 <sup>bc</sup>	0.34	(48)	-16.7
New Mexico	6.8 <sup>bc</sup>	0.29	(49)	-19.0
District of Columbia	6.3 <sup>bc</sup>	0.47	(50)	-25.0
Wyoming	6.1 <sup>bc</sup>	0.52	(51)	-27.4

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	10.5	0.04		
High Five States				
South Dakota	13.1 <sup>b</sup>	0.86	(01)	24.8
Rhode Island	12.0	0.72	(02)	14.3
Minnesota	11.9 <sup>c</sup>	0.35	(03)	13.3
Ohio	11.8 <sup>c</sup>	0.23	(04)	12.4
Indiana	11.6 <sup>c</sup>	0.32	(05)	10.5
Low Five States				
Georgia	9.1 <sup>c</sup>	0.27	(47)	-13.3
Hawaii	9.0	0.57	(48)	-14.3
District of Columbia	8.3 <sup>b</sup>	0.90	(49)	-21.0
New Mexico	8.1 <sup>bc</sup>	0.48	(50)	-22.9
Wyoming	7.0 <sup>bc</sup>	0.86	(51)	-33.3

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	6.9	0.03		
High Five States				
South Dakota	8.2 <sup>b</sup>	0.59	(01)	18.8
Ohio	7.7 <sup>c</sup>	0.15	(02)	11.6
Vermont	7.7	0.66	(03)	11.6
Oregon	7.6	0.28	(04)	10.1
Minnesota	7.6	0.24	(05)	10.1
Low Five States				
New Mexico	5.7 <sup>b</sup>	0.35	(47)	-17.4
Nevada	5.6 <sup>b</sup>	0.35	(48)	-18.8
Wyoming	5.4 <sup>b</sup>	0.65	(49)	-21.7
Hawaii	5.3 <sup>bc</sup>	0.40	(50)	-23.2
District of Columbia	5.0 <sup>b</sup>	0.54	(51)	-27.5

For additional detailed cancer statistics by state, please visit the State Cancer Profiles website. <http://statecancerprofiles.cancer.gov/>

- <sup>a</sup> 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.
- <sup>b</sup> Absolute percent difference between state rate and total U.S. rate is 15% or more.
- <sup>c</sup> Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
- SE Standard error of the rate.
- PD Percent difference between state rate and total U.S. rate.

Table XVIII-16  
NON-HODGKIN LYMPHOMA (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> on January 1, 2001  
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 <11 <sup>e</sup>	0 to <26 <sup>e</sup>	>=26 <sup>g</sup>	Complete <sup>h</sup>
<u>Race/Sex</u>									
All Races <sup>b</sup>	149,775	80,690	45,179	25,601	13,353	241,752	316,297	15,268	331,565
Males	78,674	41,667	23,243	12,930	6,440	126,162	163,797	8,107	171,904
Females	71,101	39,023	21,936	12,671	6,913	115,590	152,500	7,161	159,661
White <sup>b</sup>	134,163	72,482	41,063	23,565	12,328	216,877	285,203	15,295	300,498
Males	70,304	37,249	21,234	11,885	5,994	112,824	147,500	8,528	156,028
Females	63,859	35,233	19,829	11,680	6,334	104,053	137,703	6,767	144,470
Black <sup>b</sup>	9,940	5,151	2,788	1,269	775	15,861	19,986	1,054	21,040
Males	5,389	2,787	1,327	653	328	8,570	10,493	488	10,981
Females	4,551	2,364	1,461	616	447	7,291	9,493	566	10,059
Asian/Pacific Islander <sup>c</sup>	3,138	1,670	+	+	+	5,009	+	+	+
Males	1,691	824	+	+	+	2,616	+	+	+
Females	1,447	846	+	+	+	2,393	+	+	+
Hispanic <sup>d</sup>	7,840	3,742	+	+	+	12,174	+	+	+
Males	4,256	1,917	+	+	+	6,463	+	+	+
Females	3,584	1,825	+	+	+	5,711	+	+	+

Estimated prevalence percent<sup>a</sup> on January 1, 2001, 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 <sup>f</sup>
	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 <sup>c</sup>	0.0724%	0.0022%	0.0081%	0.0129%	0.0289%	0.0609%	0.1237%	0.2243%	0.3315%	0.3448%	0.0782%
Males	0.0769%	0.0032%	0.0112%	0.0156%	0.0340%	0.0723%	0.1444%	0.2548%	0.3720%	0.3883%	0.0900%
Females	0.0681%	0.0011%	0.0048%	0.0100%	0.0238%	0.0497%	0.1040%	0.1974%	0.3012%	0.3217%	0.0679%
White <sup>c</sup>	0.0804%	0.0022%	0.0085%	0.0135%	0.0301%	0.0640%	0.1313%	0.2449%	0.3555%	0.3604%	0.0832%
Males	0.0846%	0.0030%	0.0117%	0.0162%	0.0354%	0.0756%	0.1527%	0.2765%	0.3971%	0.4063%	0.0954%
Females	0.0762%	0.0013%	0.0051%	0.0105%	0.0245%	0.0523%	0.1105%	0.2163%	0.3240%	0.3364%	0.0724%
Black <sup>c</sup>	0.0406%	0.0017%	0.0057%	0.0120%	0.0278%	0.0582%	0.1032%	0.1352%	0.1572%	0.1583%	0.0519%
Males	0.0456%	0.0028%	0.0080%	0.0159%	0.0326%	0.0730%	0.1275%	0.1578%	0.1704%	0.1755%	0.0615%
Females	0.0359%	-	0.0033%	0.0085%	0.0235%	0.0454%	0.0828%	0.1174%	0.1485%	0.1503%	0.0439%
Asian/Pacific Islander <sup>c</sup>	0.0457%	0.0022%	0.0080%	0.0098%	0.0198%	0.0371%	0.0722%	0.1374%	0.2319%	0.2674%	0.0522%
Males	0.0490%	0.0036%	0.0107%	0.0119%	0.0227%	0.0418%	0.0811%	0.1528%	0.2683%	0.3059%	0.0598%
Females	0.0426%	-	0.0051%	0.0076%	0.0171%	0.0329%	0.0643%	0.1248%	0.2046%	0.2407%	0.0459%
Hispanic <sup>d</sup>	0.0312%	0.0020%	0.0067%	0.0085%	0.0204%	0.0427%	0.0859%	0.1639%	0.2558%	0.2488%	0.0572%
Males	0.0321%	0.0030%	0.0091%	0.0097%	0.0241%	0.0460%	0.0996%	0.1792%	0.2905%	0.2220%	0.0626%
Females	0.0302%	0.0010%	0.0041%	0.0071%	0.0161%	0.0393%	0.0733%	0.1513%	0.2311%	0.2634%	0.0521%

<sup>a</sup> US 2001 cancer prevalence counts are based on 2001 cancer prevalence proportions from the SEER registries and 1/1/2001 US population estimates based on the average of 2000 and 2001 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.  
<sup>b c d</sup> Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.  
<sup>e</sup> Maximum limited-duration prevalence: 26 years for 1975-2001 SEER 9 data; 11 years for 1990-2001 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).  
<sup>f</sup> Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.  
<sup>g h</sup> (g) Cases diagnosed 26 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <26 and >=26.  
 - Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.  
 + Not available.



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

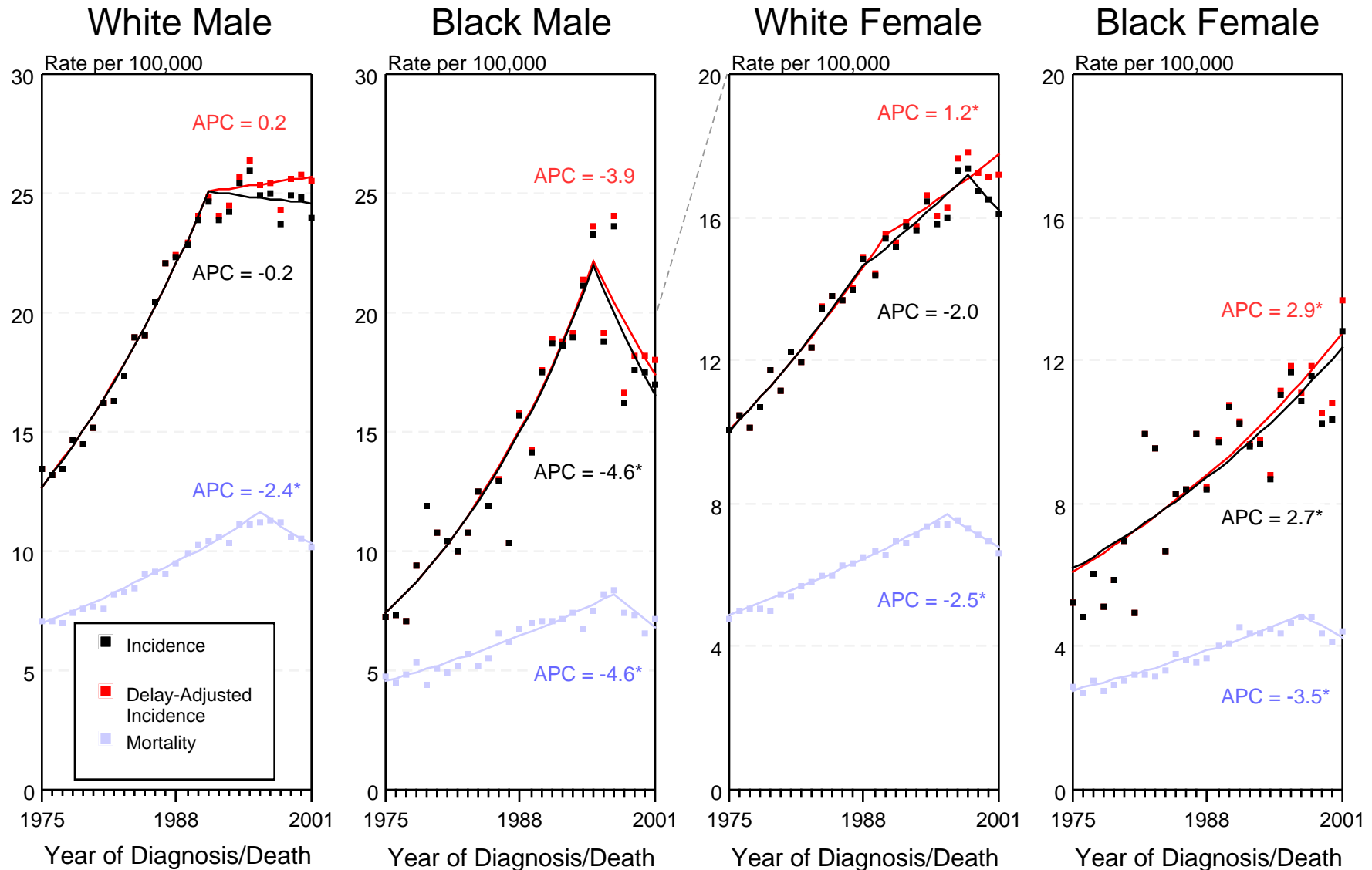


Figure XVIII-1

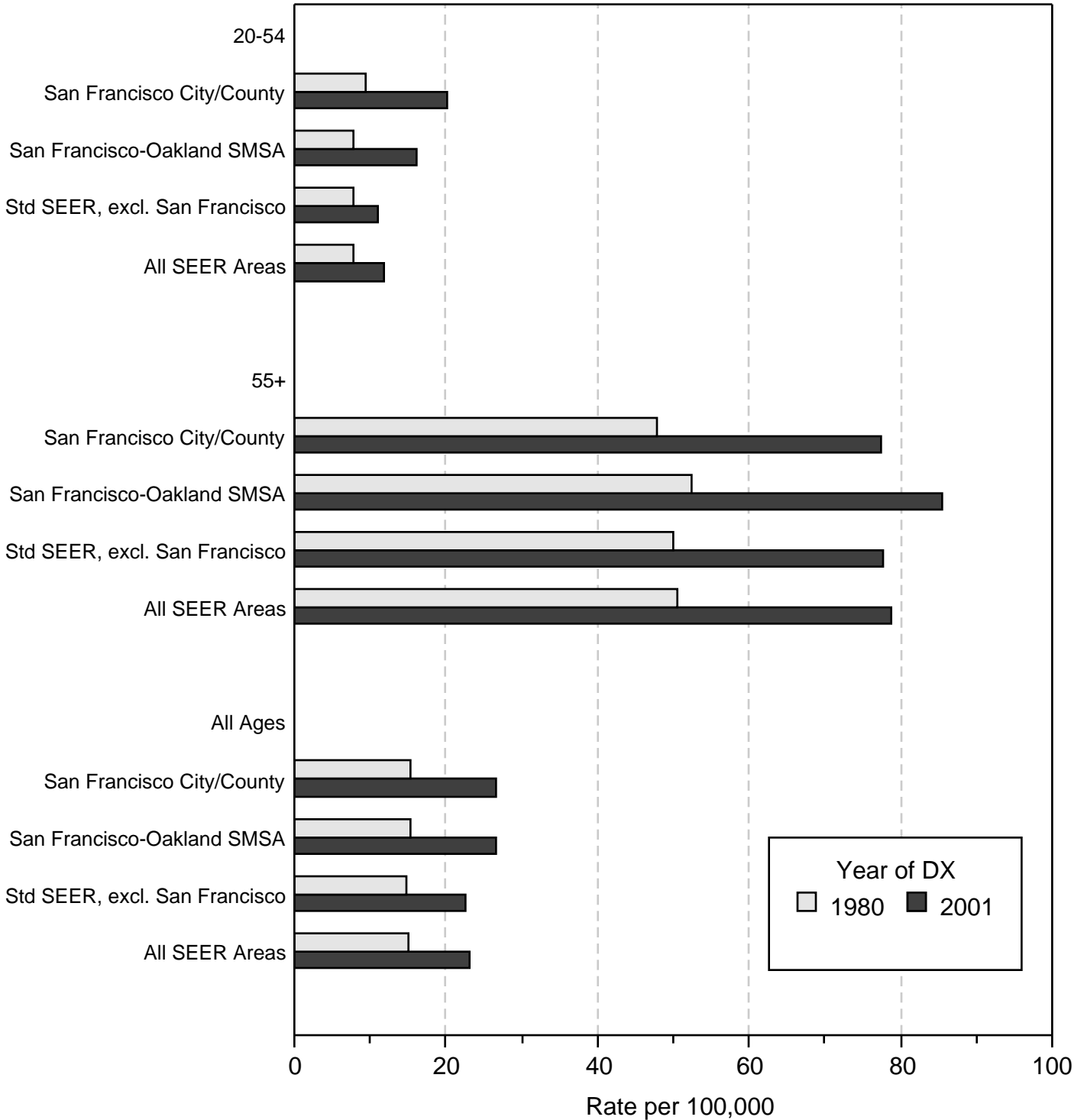
+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.

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, 1980 vs 2001 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 1999-2001 All Races, Males

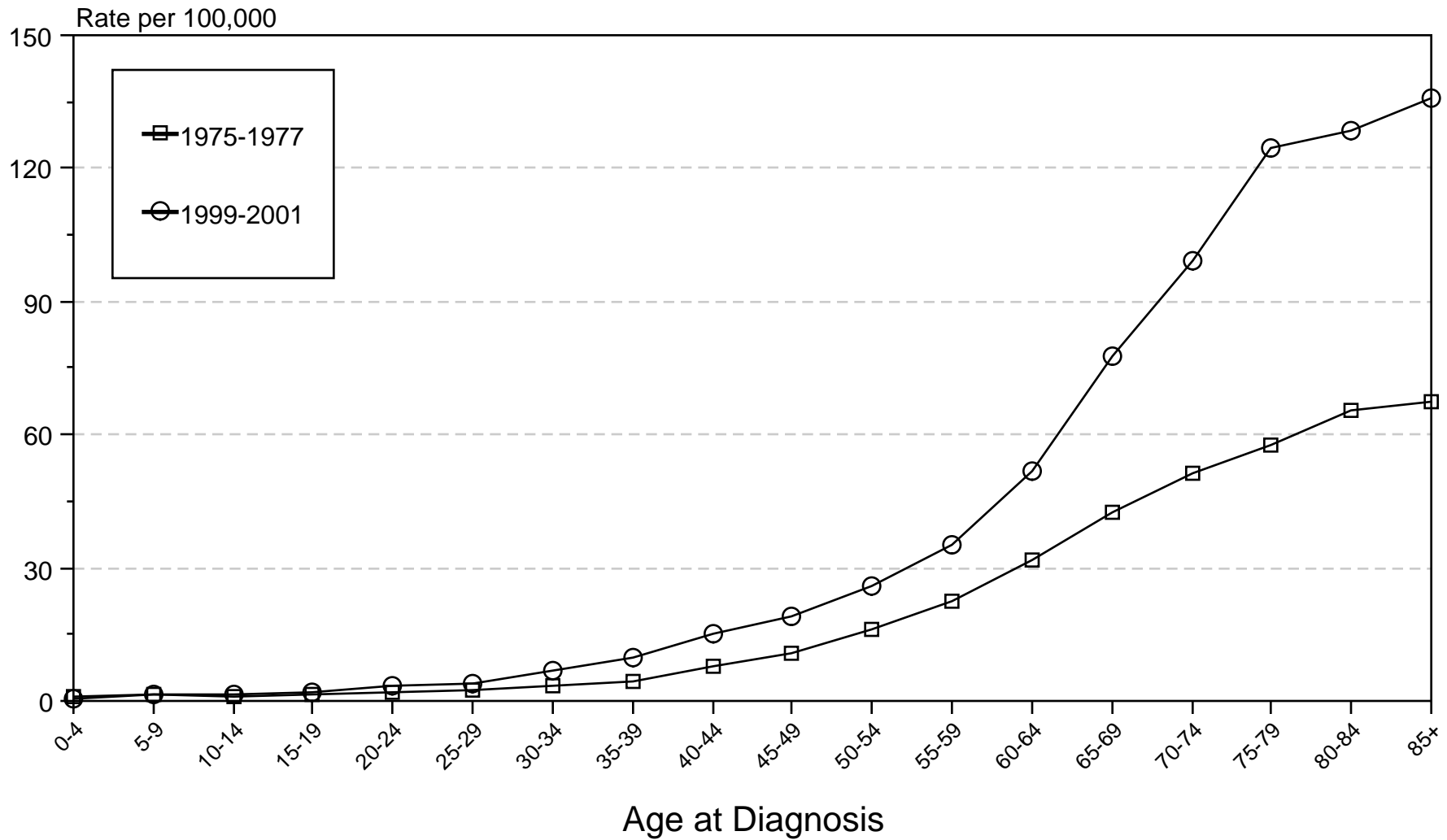


Figure XVIII-3

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