Table IX-1

HODGKIN'S DISEASE (Invasive)

TRENDS IN SEER INCIDENCE AND U.S. MORTALITY USING THE JOINPOINT REGRESSION PROGRAM, 1973-1998
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
SEER Cancer Incidence						
Sex - Male and Female	1973-76	-6.6★	1973-76	-5.9★	1973-98	0.6
	1976-89	0.6★	1976-88	0.9★		
	1989-98	-1.1★	1988-98	-1.1★		
Sex - Male	1973-76	-7.5★	1973-76	-7.3★	1973-98	-0.8
	1976-88	0.2	1976-88	0.6		
	1988-98	-1.7★	1988-98	-1.8★		
Sex - Female	1973-98	0.3★	1973-98	0.4★	1973-98	2.6★
U.S. Cancer Mortality						
Sex - Male and Female	1973-78	-7.9★	1973-78	-8.0★	1973-98	-2.8★
	1978-98	-3.6★	1978-98	-3.7★		
Sex - Male	1973-78	-7.9★	1973-76	-10.5★	1973-98	-3.2★
	1978-98	-3.8★	1976-98	-4.1★		
Sex - Female	1973-79	-7.3★	1973-79	-7.4★	1973-98	-2.2★
	1979-98	-3.2★	1979-98	-3.3★		

The APC is the Annual Percent Change based on rates age-adjusted to the 1970 U.S. standard population using the
Joinpoint Regression Program.
★   The APC is significantly different from zero (p<.05).

Table IX-2
HODGKIN'S DISEASE

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
AGE-ADJUSTED RATES									
YEAR OF DIAGNOSIS:									
1973	3.3	4.2	2.4	3.5	4.4	2.6	2.4	–	–
1974	3.1	3.7	2.6	3.2	3.8	2.7	2.5	–	–
1975	2.9	3.6	2.3	3.1	3.7	2.5	2.3	3.8	–
1976	2.6	3.1	2.2	2.8	3.2	2.4	2.4	3.6	–
1977	2.8	3.3	2.4	3.1	3.5	2.7	1.6	–	–
1978	2.7	3.2	2.3	3.0	3.5	2.5	1.4	–	–
1979	2.8	3.6	2.0	2.9	3.8	2.2	2.5	4.1	–
1980	2.6	3.1	2.2	2.8	3.3	2.4	1.7	–	–
1981	2.7	3.3	2.2	3.0	3.6	2.5	1.4	–	–
1982	2.8	3.2	2.4	3.0	3.4	2.7	2.3	2.9	–
1983	2.9	3.5	2.3	3.2	3.7	2.6	1.9	3.2	–
1984	2.9	3.5	2.4	3.3	3.8	2.8	2.0	3.0	–
1985	2.8	3.3	2.4	3.2	3.6	2.7	1.6	2.0	–
1986	2.6	3.1	2.2	2.8	3.2	2.4	2.0	2.4	–
1987	2.9	3.4	2.5	3.2	3.7	2.8	1.9	2.5	–
1988	2.9	3.3	2.6	3.3	3.7	2.9	1.8	–	–
1989	2.9	3.4	2.5	3.2	3.6	2.8	2.1	2.9	–
1990	2.9	3.3	2.5	3.1	3.6	2.7	2.7	2.9	2.5
1991	2.9	3.2	2.5	3.2	3.6	2.8	2.2	2.5	1.9
1992	2.8	3.0	2.6	3.0	3.1	2.9	2.6	2.6	2.5
1993	2.7	3.1	2.4	2.9	3.3	2.7	2.8	3.5	2.3
1994	2.7	2.9	2.5	3.0	3.3	2.7	2.0	2.2	2.0
1995	2.6	3.0	2.3	2.9	3.3	2.6	2.1	2.6	1.7
1996	2.7	3.1	2.3	2.9	3.4	2.5	2.5	3.3	1.8
1997	2.7	2.8	2.7	2.9	3.0	2.9	2.4	2.3	2.5
1998	2.6	2.8	2.4	2.9	3.2	2.7	1.8	1.9	1.7
AGE-ADJUSTED RATES, 1994-98									
AGE AT DIAGNOSIS:									
All ages	2.7	2.9	2.4	2.9	3.2	2.7	2.2	2.5	1.9
Under 65	2.6	2.8	2.4	2.8	3.1	2.6	2.3	2.5	2.0
65 and over	3.6	4.2	3.1	3.9	4.6	3.4	–	–	–
All ages (world std.)λ	2.6	2.8	2.4	2.9	3.1	2.6	2.2	2.4	1.9
AGE-SPECIFIC RATES, 1994-98									
AGE AT DIAGNOSIS:									
0-4	–	–	–	–	–	–	–	–	–
5-9	0.3	–	–	–	–	–	–	–	–
10-14	1.3	1.1	1.5	1.5	1.3	1.8	–	–	–
15-19	3.4	3.1	3.7	3.8	3.4	4.2	2.8	–	–
20-24	4.5	4.4	4.5	4.9	4.9	4.9	3.9	–	4.3
25-29	5.4	5.6	5.2	6.1	6.3	6.0	4.7	5.0	4.4
30-34	4.1	4.2	4.0	4.3	4.6	4.0	4.0	–	4.3
35-39	3.1	3.6	2.6	3.4	4.0	2.8	2.4	–	–
40-44	2.7	3.2	2.1	2.8	3.3	2.2	2.8	–	–
45-49	2.6	3.4	1.8	2.8	3.6	1.9	–	–	–
50-54	2.7	3.1	2.3	2.9	3.4	2.3	–	–	–
55-59	2.7	3.5	2.0	3.0	3.8	2.2	–	–	–
60-64	3.0	4.0	2.1	3.3	4.3	2.4	–	–	–
65-69	3.2	3.7	2.7	3.5	4.0	3.1	–	–	–
70-74	3.3	3.6	3.0	3.5	3.8	3.2	–	–	–
75-79	4.6	5.6	3.8	5.1	6.2	4.4	–	–	–
80-84	4.4	5.5	3.7	4.8	6.1	4.0	–	–	–
85+	2.8	–	2.6	2.9	–	2.7	–	–	–

§   SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.
λ   SEER Program. 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 IX-3
HODGKIN'S DISEASE

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
AGE-ADJUSTED RATES									
YEAR OF DEATH:									
1973	1.3	1.7	1.0	1.4	1.8	1.1	0.9	1.4	0.5
1974	1.2	1.6	0.9	1.3	1.6	1.0	0.8	1.2	0.6
1975	1.1	1.5	0.9	1.2	1.5	0.9	0.9	1.3	0.6
1976	1.0	1.3	0.8	1.0	1.3	0.8	0.9	1.2	0.5
1977	1.0	1.2	0.7	1.0	1.3	0.8	0.8	1.0	0.6
1978	0.9	1.1	0.7	0.9	1.2	0.7	0.7	1.0	0.4
1979	0.8	1.1	0.6	0.9	1.1	0.6	0.7	0.9	0.4
1980	0.8	1.0	0.7	0.9	1.1	0.7	0.7	1.0	0.4
1981	0.8	1.0	0.6	0.8	1.0	0.6	0.7	0.8	0.6
1982	0.7	0.9	0.6	0.8	1.0	0.6	0.6	0.7	0.5
1983	0.7	0.9	0.6	0.8	1.0	0.6	0.6	0.8	0.4
1984	0.7	1.0	0.5	0.8	1.0	0.5	0.7	1.0	0.4
1985	0.7	0.8	0.5	0.7	0.8	0.5	0.6	0.8	0.5
1986	0.7	0.9	0.5	0.7	0.9	0.5	0.6	0.7	0.4
1987	0.6	0.8	0.5	0.7	0.8	0.5	0.6	0.8	0.4
1988	0.6	0.7	0.4	0.6	0.8	0.4	0.5	0.6	0.4
1989	0.6	0.8	0.5	0.6	0.8	0.5	0.6	0.8	0.4
1990	0.6	0.7	0.4	0.6	0.7	0.4	0.5	0.7	0.3
1991	0.6	0.7	0.4	0.6	0.7	0.4	0.6	0.8	0.4
1992	0.6	0.7	0.4	0.6	0.7	0.4	0.5	0.6	0.4
1993	0.5	0.7	0.4	0.5	0.7	0.4	0.5	0.7	0.3
1994	0.5	0.6	0.4	0.5	0.6	0.4	0.5	0.6	0.4
1995	0.5	0.6	0.4	0.5	0.6	0.4	0.5	0.7	0.3
1996	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.6	0.3
1997	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.6	0.4
1998	0.4	0.5	0.3	0.4	0.5	0.3	0.4	0.6	0.3
AGE-ADJUSTED RATES, 1994-98									
AGE AT DEATH:									
All ages	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.6	0.3
Under 65	0.3	0.4	0.3	0.3	0.4	0.3	0.4	0.5	0.3
65 and over	1.6	2.0	1.4	1.7	2.1	1.5	0.9	1.2	0.7
All ages (world std.)φ	0.4	0.5	0.3	0.4	0.5	0.3	0.4	0.6	0.3
AGE-SPECIFIC RATES, 1994-98									
AGE AT DEATH:									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	0.0	-	-	-	-	-	-	-	-
15-19	0.1	0.1	0.1	0.1	0.1	0.1	0.2	-	-
20-24	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.5	0.4
25-29	0.5	0.6	0.4	0.5	0.6	0.4	0.6	0.7	0.5
30-34	0.5	0.6	0.4	0.5	0.6	0.4	0.7	0.9	0.4
35-39	0.5	0.6	0.4	0.5	0.6	0.4	0.6	0.8	0.4
40-44	0.5	0.6	0.4	0.5	0.6	0.4	0.6	0.8	0.5
45-49	0.5	0.6	0.4	0.5	0.7	0.4	0.5	0.6	-
50-54	0.6	0.8	0.4	0.6	0.7	0.4	0.8	1.3	-
55-59	0.7	0.9	0.5	0.7	0.9	0.5	0.8	1.3	-
60-64	0.8	0.9	0.7	0.8	0.9	0.7	0.8	-	-
65-69	1.2	1.4	1.0	1.3	1.5	1.0	0.6	-	-
70-74	1.6	2.0	1.3	1.7	2.1	1.4	1.0	1.8	-
75-79	1.9	2.1	1.8	2.0	2.2	1.9	1.1	-	-
80-84	2.4	3.0	2.0	2.5	3.1	2.1	-	-	-
85+	2.2	2.7	2.0	2.4	3.0	2.1	-	-	-

δ   NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.
φ   NCHS public use tape. 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 IX-4
HODGKIN'S DISEASE

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1960-63[a]	–	–	–	40	34	48	–	–	–
1970-73[a]	–	–	–	67	66	69	–	–	–
1974-76[b]	71.1	69.6	73.1	71.6	69.7	73.9	69.1	72.1↑	62.4↑
1977-79[b]	73.2	70.9	76.2	73.3	70.9	76.4	72.8	72.0↑	73.5↑
1980-82[b]	74.5	73.9	75.2	75.0	74.6	75.6	71.0	73.5↑	67.0↑
1983-85[b]	78.8	77.5	80.4	79.0	77.9	80.4	77.6	73.6↑	85.6↑
1986-88[b]	79.3	77.0	82.2	80.1	77.6	83.2	71.5	74.3↑	67.9↑
1989-91[b]	81.2	78.6	84.4	82.4	80.1	85.2	73.0	65.5↑	81.3
1992-97[b]	83.1Ω	80.5Ω	86.1Ω	84.0Ω	81.7Ω	86.6Ω	77.5Ω	73.6	81.6Ω
5-YR RELATIVE SURVIVAL RATES, 1992-97[b]									
AGE AT DIAGNOSIS:									
<45	89.5	85.8	93.6	91.0	87.5	95.0	79.4	75.4	83.3
45-54	80.3	78.5	83.8	81.5	80.2	83.7	77.8↑	–	–
55-64	73.2	73.3	72.8↑	73.7	73.6↑	73.8↑	71.5⇑	–	–
65-74	59.8	57.7↑	59.0↑	58.5	56.3↑	60.0↑	–	–	–
75+	29.8↑	24.5↑	32.5↑	29.7↑	21.2↑	33.7↑	–	–	–
Under 65	87.2	83.7	91.4	88.5	85.2	92.5	78.9	74.5	83.7
65 and over	47.4	48.6↑	46.3	47.3	47.3↑	47.1	–	–	–

[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 1997.
Ω The difference in rates between 1974-76 and 1992-97 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 IX-5
<u>HODGKIN'S DISEASE</u>

<u>INCIDENCE, MORTALITY, AND SURVIVAL RATES</u>

By Year of Diagnosis/Death

All Races, Males and Females

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Incidence																				
SEER	2.9	2.6	2.7	2.8	2.9	2.9	2.8	2.6	2.9	2.9	2.9	2.9	2.9	2.8	2.7	2.7	2.6	2.7	2.7	2.6
Mortality																				
U.S.	1.1	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4
SEER	1.2	0.8	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4

Relative Survival Rates (SEER)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1-year	86.9	89.1	87.5	89.1	91.0	92.0	91.3	91.4	91.3	90.6	90.8	90.9	93.0	92.7	91.8	93.3	93.2	91.5	93.3
2-year	79.8	83.7	82.0	83.6	84.8	85.7	86.5	85.8	85.8	86.7	87.0	86.9	87.3	89.2	87.0	90.1	89.4	88.8	
3-year	76.0	79.7	79.5	78.5	82.6	83.3	83.2	82.3	82.8	84.5	84.0	84.8	85.0	88.0	84.5	86.7	87.2		
4-year	73.8	77.8	77.9	75.3	80.1	80.8	81.1	80.3	80.3	82.4	81.4	82.8	82.7	86.3	82.9	85.0			
5-year	71.3	74.7	76.3	72.6	77.8	78.5	80.0	78.7	78.8	80.3	80.7	82.1	80.7	85.1	80.9				
6-year	70.0	72.8	72.7	71.0	76.5	75.3	78.5	76.8	77.5	79.1	79.4	80.6	79.7	83.4					
7-year	68.9	71.5	71.6	69.3	74.5	74.2	77.7	74.0	75.5	76.4	76.6	78.5	78.4						
8-year	66.1	71.4	70.8	67.2	73.3	73.0	76.5	72.9	74.5	75.3	75.2	77.4							
9-year	63.9	70.1	69.6	65.5	72.2	72.5	76.5	71.9	73.6	74.2	75.1								
10-year	63.3	68.9	68.7	65.0	71.1	71.9	76.3	71.7	72.6	73.9									
11-year	63.0	68.1	67.3	64.6	70.5	71.4	76.3	70.6	70.4										
12-year	62.5	67.9	65.5	64.6	69.0	71.1	75.9	69.6											
13-year	61.9	67.9	64.3	63.9	68.8	70.0	75.1												
14-year	60.8	66.5	63.7	63.3	67.2	69.1													
15-year	59.3	65.6	63.7	63.3	66.3														
16-year	59.3	65.1	63.0	61.7															
17-year	58.1	63.1	61.9																
18-year	58.1	61.8																	
19-year	57.9																		
20-year	57.8																		
21-year	56.9																		
22-year	56.1																		
23-year	55.0																		

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.

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                                           Table IX-6
                                      HODGKIN'S DISEASE

                             INCIDENCE, MORTALITY, AND SURVIVAL RATES

                                  By Year of Diagnosis/Death

                                       All Races, Males


                                     Year of Diagnosis/Death
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	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Incidence																				
SEER	3.6	3.1	3.3	3.2	3.5	3.5	3.3	3.1	3.4	3.3	3.4	3.3	3.2	3.0	3.1	2.9	3.0	3.1	2.8	2.8
Mortality																				
U.S.	1.5	1.0	1.0	0.9	0.9	1.0	0.8	0.9	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5
SEER	1.7	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.8	0.7	0.8	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
Relative Survival Rates (SEER)																				
1-year	85.5	89.9	89.3	86.6	90.9	91.5	91.0	89.3	90.6	90.6	88.9	90.7	93.2	91.1	89.3	93.7	92.3	92.9	91.5	
2-year	79.5	85.2	84.0	81.2	84.3	86.0	86.5	83.6	84.8	84.8	84.6	84.9	87.0	86.9	84.0	89.2	88.6	89.9		
3-year	74.9	81.9	81.8	76.5	82.0	83.3	83.4	80.9	81.4	82.0	81.7	83.1	83.6	85.5	81.1	86.1	85.5			
4-year	72.3	79.4	78.9	73.1	79.3	80.8	80.5	78.3	79.5	79.2	78.0	81.3	80.3	83.5	79.0	83.7				
5-year	69.7	75.7	76.5	69.8	76.5	77.7	78.4	76.3	77.6	77.0	77.1	81.0	77.5	82.3	76.3					
6-year	67.9	73.4	72.7	68.3	75.1	74.2	77.2	73.3	75.6	75.4	76.5	79.7	76.6	80.6						
7-year	67.9	72.6	71.4	66.7	72.8	73.3	76.0	70.1	72.7	71.3	73.8	77.1	74.3							
8-year	66.0	72.4	70.3	64.0	71.0	72.1	74.4	69.2	71.8	69.8	71.2	76.8								
9-year	63.4	70.9	69.9	62.3	70.3	71.7	74.1	67.2	70.2	68.4	71.0									
10-year	62.4	69.7	68.4	61.8	68.8	70.7	73.7	66.5	68.8	68.4										
11-year	61.7	69.7	67.2	61.7	67.7	69.3	73.4	65.4	65.8											
12-year	60.9	69.3	65.0	61.7	65.7	68.9	72.2	64.2												
13-year	60.8	69.3	64.4	60.8	65.7	68.1	71.3													
14-year	59.5	67.5	63.5	60.2	64.5	67.1														
15-year	57.1	66.5	63.5	60.2	64.2															
16-year	57.1	65.5	63.0	57.8																
17-year	56.6	64.0	62.3																	
18-year	56.6	62.6																		
19-year	56.0																			
20-year	55.7																			
21-year	54.4																			
22-year	54.4																			
23-year	53.5																			

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   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.
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Table IX-7
HODGKIN'S DISEASE

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Incidence																				
SEER	2.3	2.2	2.2	2.4	2.3	2.4	2.4	2.2	2.5	2.6	2.5	2.5	2.5	2.6	2.4	2.5	2.3	2.3	2.7	2.4
Mortality																				
U.S.	0.9	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
SEER	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2
Relative Survival Rates (SEER)																				
1-year	88.8	88.2	85.1	92.1	91.0	92.7	91.6	94.2	92.1	90.7	93.3	91.1	92.8	94.5	94.8	93.0	94.2	89.7	95.0	
2-year	80.1	81.8	79.5	86.6	85.6	85.4	86.4	88.6	86.9	89.1	90.0	89.3	87.8	91.9	90.5	91.2	90.3	87.2		
3-year	77.6	76.9	76.5	81.1	83.4	83.3	82.9	84.2	84.6	87.7	86.9	86.9	86.8	90.8	88.5	87.5	89.2			
4-year	75.8	75.6	76.5	78.0	81.1	80.9	81.9	82.8	81.3	86.4	85.5	84.8	85.8	89.4	87.4	86.5				
5-year	73.6	73.4	75.9	76.0	79.6	79.6	81.9	81.9	80.4	84.3	85.1	83.3	84.8	88.2	86.2					
6-year	73.1	72.1	72.7	74.3	78.4	76.8	80.1	81.4	79.8	83.6	83.0	81.7	83.7	86.5						
7-year	70.3	70.2	71.8	72.5	76.8	75.5	79.8	79.2	78.9	82.6	80.0	80.1	83.6							
8-year	66.1	70.0	71.4	71.2	76.4	74.2	79.0	77.8	77.9	82.2	80.0	78.2								
9-year	64.6	69.0	69.2	69.4	74.7	73.6	79.0	77.8	77.7	81.3	79.9									
10-year	64.5	67.9	69.2	68.7	74.3	73.4	79.0	77.8	77.1	80.4										
11-year	64.5	65.8	67.3	68.1	74.3	73.4	79.0	77.3	75.9											
12-year	64.5	65.8	66.2	67.4	73.4	73.4	79.0	76.5												
13-year	63.4	65.8	64.1	67.4	72.9	72.5	79.0													
14-year	62.7	65.1	64.0	66.9	70.9	71.8														
15-year	62.4	64.3	63.8	66.6	69.1															
16-year	61.5	64.3	63.0	66.2																
17-year	60.1	61.9	61.4																	
18-year	60.1	60.8																		
19-year	60.1																			
20-year	60.1																			
21-year	60.1																			
22-year	58.3																			
23-year	56.9																			

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 IX-8
HODGKIN'S DISEASE

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

1996-1998

All Races

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.03	0.07	0.23	0.00	0.03	0.07	0.20
10	0.02	0.07	0.10	0.23	0.03	0.07	0.10	0.20
20	0.04	0.08	0.11	0.21	0.04	0.07	0.09	0.17
30	0.03	0.07	0.10	0.17	0.03	0.05	0.07	0.13
40	0.03	0.06	0.10	0.14	0.02	0.04	0.06	0.10
50	0.03	0.07	0.09	0.11	0.02	0.04	0.07	0.08
60	0.04	0.06	0.08	0.08	0.02	0.05	0.06	0.07

Lifetime Risk of Being Diagnosed =   0.23%   Lifetime Risk of Being Diagnosed =   0.20%
Lifetime Risk of Dying =   0.05%   Lifetime Risk of Dying =   0.04%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.03	0.08	0.26	0.00	0.03	0.08	0.22
10	0.03	0.07	0.11	0.26	0.03	0.08	0.11	0.22
20	0.05	0.09	0.12	0.23	0.05	0.08	0.10	0.19
30	0.04	0.07	0.11	0.19	0.03	0.05	0.08	0.14
40	0.03	0.07	0.10	0.15	0.02	0.04	0.07	0.11
50	0.04	0.07	0.10	0.12	0.02	0.05	0.08	0.09
60	0.04	0.07	0.09	0.09	0.03	0.05	0.07	0.07

Lifetime Risk of Being Diagnosed =   0.26%   Lifetime Risk of Being Diagnosed =   0.22%
Lifetime Risk of Dying =   0.05%   Lifetime Risk of Dying =   0.05%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.02	0.05	0.18	0.00	0.02	0.05	0.15
10	0.02	0.05	0.08	0.18	0.01	0.05	0.08	0.15
20	0.04	0.07	0.10	0.17	0.04	0.07	0.08	0.13
30	0.03	0.06	0.10	0.13	0.03	0.04	0.07	0.10
40	0.04	0.07	0.10	0.11	0.01	0.04	0.06	0.07
50	0.04	0.07	0.08	0.08	0.03	0.04	0.06	0.06
60	0.04	0.05	0.05	0.05	0.02	0.03	0.04	0.04

Lifetime Risk of Being Diagnosed =   0.18%   Lifetime Risk of Being Diagnosed =   0.15%
Lifetime Risk of Dying =   0.04%   Lifetime Risk of Dying =   0.03%

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                                Table IX-9
                          HODGKIN'S DISEASE (Invasive)

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

                          By Race/Ethnicity and Sex
```

Incidenceχ

	Rate 1992-1998 Rate per 100,000 persons			Trend 1992-1998 EAPC (%)		
	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY						
All Races	2.6	2.8	2.3	-0.6	-0.3	-1.0
White	2.8	3.1	2.6	0.1	0.0	0.1
White Hispanic	2.2	2.5	1.9	0.3	-3.7	5.1★
White Non-Hispanic	3.1	3.3	2.8	0.2	0.7	-0.5
Black	2.2	2.5	2.0	-3.7	-2.1	-5.5
Asian/Pacific Islander	0.9	1.0	0.7	-4.8	-5.3	-4.5
Amer Ind/Alask Nat	-	-	-	-	-	-
Hispanic⊗	2.1	2.4	1.8	0.6	-3.1	5.0★

Mortality✣

	Rate 1992-1998 Rate per 100,000 persons			Trend 1992-1998 EAPC (%)		
	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY						
All Races	0.5	0.6	0.4	-4.2★	-4.9★	-3.5★
White	0.5	0.6	0.4	-4.5★	-5.1★	-3.9★
White Hispanic	0.5	0.7	0.4	-1.2	-2.6	0.1
White Non-Hispanic	0.5	0.6	0.4	-4.5★	-5.2★	-3.8★
Black	0.5	0.6	0.3	-2.3★	-2.4	-2.8
Asian/Pacific Islander	0.2	0.2	0.1	-	-	-
Amer Ind/Alask Nat	0.2	-	-	-	-	-
Hispanic⊗	0.5	0.6	0.3	-1.2	-3.2	0.9

Table IX-10
HODGKIN'S DISEASE

AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER MORTALITY RATESδ
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
SEER INCIDENCE RATES§, 1994-98									
REGISTRY									
11 registries	2.5	2.8	2.3	2.8	3.1	2.6	2.1	2.4	1.9
9 registries	2.7	2.9	2.4	2.9	3.2	2.7	2.2	2.5	1.9
San Francisco-Oakland	2.6	3.0	2.2	3.1	3.5	2.7	2.0	2.5	–
Connecticut	3.3	3.6	3.1	3.5	3.7	3.2	2.6	–	–
Metropolitan Detroit	3.0	3.2	2.7	3.2	3.5	3.0	2.1	2.3	2.0
Hawaii	1.4	1.6	1.3	2.5	3.3	–	–	–	–
Iowa	2.8	2.9	2.7	2.8	2.9	2.8	–	–	–
New Mexico	2.0	2.2	1.9	2.2	2.5	2.1	–	–	–
Seattle-Puget Sound	2.7	2.9	2.4	2.8	3.2	2.6	–	–	–
Utah	2.3	2.7	2.0	2.4	2.7	2.1	–	–	–
Metropolitan Atlanta	2.7	3.2	2.3	2.9	3.3	2.7	2.2	3.0	1.6
San Jose-Monterey	2.3	2.3	2.4	2.5	2.3	2.8	–	–	–
Los Angeles	2.2	2.7	1.9	2.6	3.0	2.2	2.0	2.3	1.7
SEER MORTALITY RATESδ, 1994-98									
REGISTRY									
11 registries	0.4	0.6	0.3	0.5	0.6	0.3	0.5	0.6	0.5
9 registries	0.4	0.6	0.3	0.5	0.6	0.3	0.5	0.7	0.3
San Francisco-Oakland	0.4	0.6	0.3	0.5	0.7	0.4	–	–	–
Connecticut	0.5	0.7	0.3	0.5	0.7	0.3	–	–	–
Metropolitan Detroit	0.5	0.8	0.4	0.6	0.8	0.3	0.5	–	–
Hawaii	–	–	–	–	–	–	–	–	–
Iowa	0.4	0.4	0.3	0.4	0.4	0.3	–	–	–
New Mexico	0.6	0.7	–	0.6	0.8	–	–	–	–
Seattle-Puget Sound	0.4	0.5	0.2	0.4	0.5	0.3	–	–	–
Utah	0.4	–	–	0.4	–	–	–	–	–
Metropolitan Atlanta	0.5	0.7	–	0.5	0.7	–	–	–	–
San Jose-Monterey	0.4	0.5	–	0.5	0.6	–	–	–	–
Los Angeles	0.4	0.5	0.4	0.4	0.5	0.3	0.6	–	–

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

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                                        Table IX-11
                                     HODGKIN'S DISEASE

              AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITYᵈ RATES BY STATE, 1994-98

                               All Races, Males and Females
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State	Rate	SE	Rank	PD
TOTAL U.S.	0.4	0.01		
High Five States				
District of Columbia	0.8'	0.16	(01)	100.0
New Mexico	0.6'	0.08	(02)	50.0
North Dakota	0.6'	0.13	(03)	50.0
Rhode Island	0.6'	0.10	(04)	50.0
Louisiana	0.6'	0.05	(05)	50.0
Low Five States				
Virginia	0.4	0.03	(47)	0.0
North Carolina	0.4	0.03	(48)	0.0
Colorado	0.3'	0.04	(49)	-25.0
Alaska	0.3'	0.13	(50)	-25.0
Hawaii	0.1¾'	0.05	(51)	-75.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.4	0.04	(35)	0.0	Montana	0.4	0.09	(41)	0.0
Alaska	0.3'	0.13	(50)	-25.0	Nebraska	0.4	0.07	(37)	0.0
Arizona	0.4	0.04	(33)	0.0	Nevada	0.4	0.07	(32)	0.0
Arkansas	0.5'	0.06	(06)	25.0	New Hampshire	0.5'	0.09	(14)	25.0
California	0.4	0.02	(27)	0.0	New Jersey	0.5'	0.03	(16)	25.0
Colorado	0.3'	0.04	(49)	-25.0	New Mexico	0.6'	0.08	(02)	50.0
Connecticut	0.5'	0.05	(15)	25.0	New York	0.5¾'	0.02	(07)	25.0
Delaware	0.5'	0.11	(22)	25.0	North Carolina	0.4	0.03	(48)	0.0
District of Columbia	0.8'	0.16	(01)	100.0	North Dakota	0.6'	0.13	(03)	50.0
Florida	0.4	0.02	(34)	0.0	Ohio	0.4	0.03	(25)	0.0
Georgia	0.4	0.03	(39)	0.0	Oklahoma	0.4	0.05	(40)	0.0
Hawaii	0.1¾'	0.05	(51)	-75.0	Oregon	0.4	0.04	(43)	0.0
Idaho	0.5'	0.08	(19)	25.0	Pennsylvania	0.4	0.02	(24)	0.0
Illinois	0.4	0.03	(26)	0.0	Rhode Island	0.6'	0.10	(04)	50.0
Indiana	0.5'	0.04	(18)	25.0	South Carolina	0.4	0.04	(45)	0.0
Iowa	0.4	0.05	(44)	0.0	South Dakota	0.5'	0.11	(10)	25.0
Kansas	0.4	0.05	(42)	0.0	Tennessee	0.5'	0.04	(17)	25.0
Kentucky	0.4	0.04	(36)	0.0	Texas	0.5'	0.02	(20)	25.0
Louisiana	0.6'	0.05	(05)	50.0	Utah	0.4	0.06	(46)	0.0
Maine	0.5'	0.08	(11)	25.0	Vermont	0.4	0.12	(38)	0.0
Maryland	0.5'	0.04	(23)	25.0	Virginia	0.4	0.03	(47)	0.0
Massachusetts	0.5'	0.04	(12)	25.0	Washington	0.4	0.04	(31)	0.0
Michigan	0.5'	0.03	(09)	25.0	West Virginia	0.5'	0.07	(08)	25.0
Minnesota	0.4	0.04	(29)	0.0	Wisconsin	0.4	0.04	(30)	0.0
Mississippi	0.5'	0.06	(13)	25.0	Wyoming	0.5'	0.13	(21)	25.0
Missouri	0.4	0.04	(28)	0.0					

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d        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.
¾        Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
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                               Table IX-12
                             HODGKIN'S DISEASE


           AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITYᵈ RATES BY STATE, 1994-98


                               All Races, Males
```

State	Rate	SE	Rank	PD
TOTAL U.S.	0.5	0.01		
High Five States				
District of Columbia	1.1'	0.30	(01)	120.0
Rhode Island	0.7'	0.16	(02)	40.0
New Mexico	0.7'	0.13	(03)	40.0
Connecticut	0.7'	0.09	(04)	40.0
Delaware	0.7'	0.19	(05)	40.0
Low Five States				
Montana	0.4'	0.12	(47)	-20.0
Vermont	0.4'	0.17	(48)	-20.0
Alaska	0.4'	0.20	(49)	-20.0
South Carolina	0.3'	0.06	(50)	-40.0
Hawaii	0.2¾'	0.08	(51)	-60.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.5	0.06	(39)	0.0	Montana	0.4'	0.12	(47)	-20.0
Alaska	0.4'	0.20	(49)	-20.0	Nebraska	0.5	0.11	(36)	0.0
Arizona	0.5	0.07	(31)	0.0	Nevada	0.5	0.11	(34)	0.0
Arkansas	0.6'	0.10	(08)	20.0	New Hampshire	0.6'	0.15	(12)	20.0
California	0.5	0.03	(32)	0.0	New Jersey	0.6'	0.05	(26)	20.0
Colorado	0.5	0.07	(37)	0.0	New Mexico	0.7'	0.13	(03)	40.0
Connecticut	0.7'	0.09	(04)	40.0	New York	0.6'	0.04	(10)	20.0
Delaware	0.7'	0.19	(05)	40.0	North Carolina	0.4'	0.05	(46)	-20.0
District of Columbia	1.1'	0.30	(01)	120.0	North Dakota	0.6'	0.19	(25)	20.0
Florida	0.5	0.04	(33)	0.0	Ohio	0.5	0.04	(35)	0.0
Georgia	0.5	0.06	(27)	0.0	Oklahoma	0.6'	0.08	(19)	20.0
Hawaii	0.2¾'	0.08	(51)	-60.0	Oregon	0.4'	0.07	(43)	-20.0
Idaho	0.6'	0.15	(07)	20.0	Pennsylvania	0.6'	0.04	(23)	20.0
Illinois	0.6'	0.04	(18)	20.0	Rhode Island	0.7'	0.16	(02)	40.0
Indiana	0.6'	0.06	(14)	20.0	South Carolina	0.3'	0.06	(50)	-40.0
Iowa	0.4'	0.08	(45)	-20.0	South Dakota	0.6'	0.17	(11)	20.0
Kansas	0.5	0.08	(40)	0.0	Tennessee	0.6'	0.07	(16)	20.0
Kentucky	0.6'	0.07	(24)	20.0	Texas	0.6'	0.04	(20)	20.0
Louisiana	0.6'	0.08	(06)	20.0	Utah	0.5	0.11	(28)	0.0
Maine	0.4'	0.12	(42)	-20.0	Vermont	0.4'	0.17	(48)	-20.0
Maryland	0.5	0.06	(29)	0.0	Virginia	0.4'	0.05	(44)	-20.0
Massachusetts	0.6'	0.06	(22)	20.0	Washington	0.6'	0.07	(15)	20.0
Michigan	0.6'	0.05	(13)	20.0	West Virginia	0.6'	0.11	(17)	20.0
Minnesota	0.5	0.06	(38)	0.0	Wisconsin	0.5	0.06	(30)	0.0
Mississippi	0.6'	0.10	(09)	20.0	Wyoming	0.4'	0.19	(41)	-20.0
Missouri	0.6'	0.06	(21)	20.0					

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d      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.
¾      Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
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Table IX-13
HODGKIN'S DISEASE

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^d RATES BY STATE, 1994-98

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	0.4	0.01		
High Five States				
North Dakota	0.6'	0.19	(01)	50.0
Maine	0.5'	0.12	(02)	25.0
District of Columbia	0.5'	0.17	(03)	25.0
Louisiana	0.5'	0.06	(04)	25.0
West Virginia	0.5'	0.09	(05)	25.0
Low Five States				
Washington	0.3'	0.04	(47)	-25.0
Colorado	0.2'	0.05	(48)	-50.0
Delaware	0.2'	0.10	(49)	-50.0
Utah	0.2'	0.06	(50)	-50.0
Hawaii	0.1¾'	0.05	(51)	-75.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	0.4	0.05	(22)	0.0	Montana	0.4	0.13	(19)	0.0
Alaska	0.3'	0.17	(41)	-25.0	Nebraska	0.4	0.09	(26)	0.0
Arizona	0.3'	0.05	(37)	-25.0	Nevada	0.4	0.09	(29)	0.0
Arkansas	0.5'	0.08	(06)	25.0	New Hampshire	0.4	0.11	(12)	0.0
California	0.4	0.02	(24)	0.0	New Jersey	0.4	0.04	(17)	0.0
Colorado	0.2'	0.05	(48)	-50.0	New Mexico	0.5'	0.10	(09)	25.0
Connecticut	0.3'	0.06	(45)	-25.0	New York	0.5'	0.03	(07)	25.0
Delaware	0.2'	0.10	(49)	-50.0	North Carolina	0.3'	0.04	(36)	-25.0
District of Columbia	0.5'	0.17	(03)	25.0	North Dakota	0.6'	0.19	(01)	50.0
Florida	0.3'	0.03	(32)	-25.0	Ohio	0.4	0.03	(20)	0.0
Georgia	0.3'	0.04	(43)	-25.0	Oklahoma	0.3'	0.05	(46)	-25.0
Hawaii	0.1¾'	0.05	(51)	-75.0	Oregon	0.3'	0.06	(40)	-25.0
Idaho	0.3'	0.09	(42)	-25.0	Pennsylvania	0.3'	0.03	(31)	-25.0
Illinois	0.3'	0.03	(38)	-25.0	Rhode Island	0.4	0.12	(15)	0.0
Indiana	0.4	0.05	(30)	0.0	South Carolina	0.4	0.06	(16)	0.0
Iowa	0.3'	0.06	(34)	-25.0	South Dakota	0.4	0.15	(14)	0.0
Kansas	0.3'	0.07	(33)	-25.0	Tennessee	0.4	0.05	(28)	0.0
Kentucky	0.3'	0.05	(44)	-25.0	Texas	0.4	0.03	(25)	0.0
Louisiana	0.5'	0.06	(04)	25.0	Utah	0.2'	0.06	(50)	-50.0
Maine	0.5'	0.12	(02)	25.0	Vermont	0.4	0.16	(11)	0.0
Maryland	0.4	0.05	(23)	0.0	Virginia	0.3'	0.04	(39)	-25.0
Massachusetts	0.4	0.05	(10)	0.0	Washington	0.3'	0.04	(47)	-25.0
Michigan	0.4	0.04	(13)	0.0	West Virginia	0.5'	0.09	(05)	25.0
Minnesota	0.4	0.06	(18)	0.0	Wisconsin	0.4	0.05	(27)	0.0
Mississippi	0.4	0.07	(21)	0.0	Wyoming	0.5'	0.19	(08)	25.0
Missouri	0.3'	0.05	(35)	-25.0					

d   NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
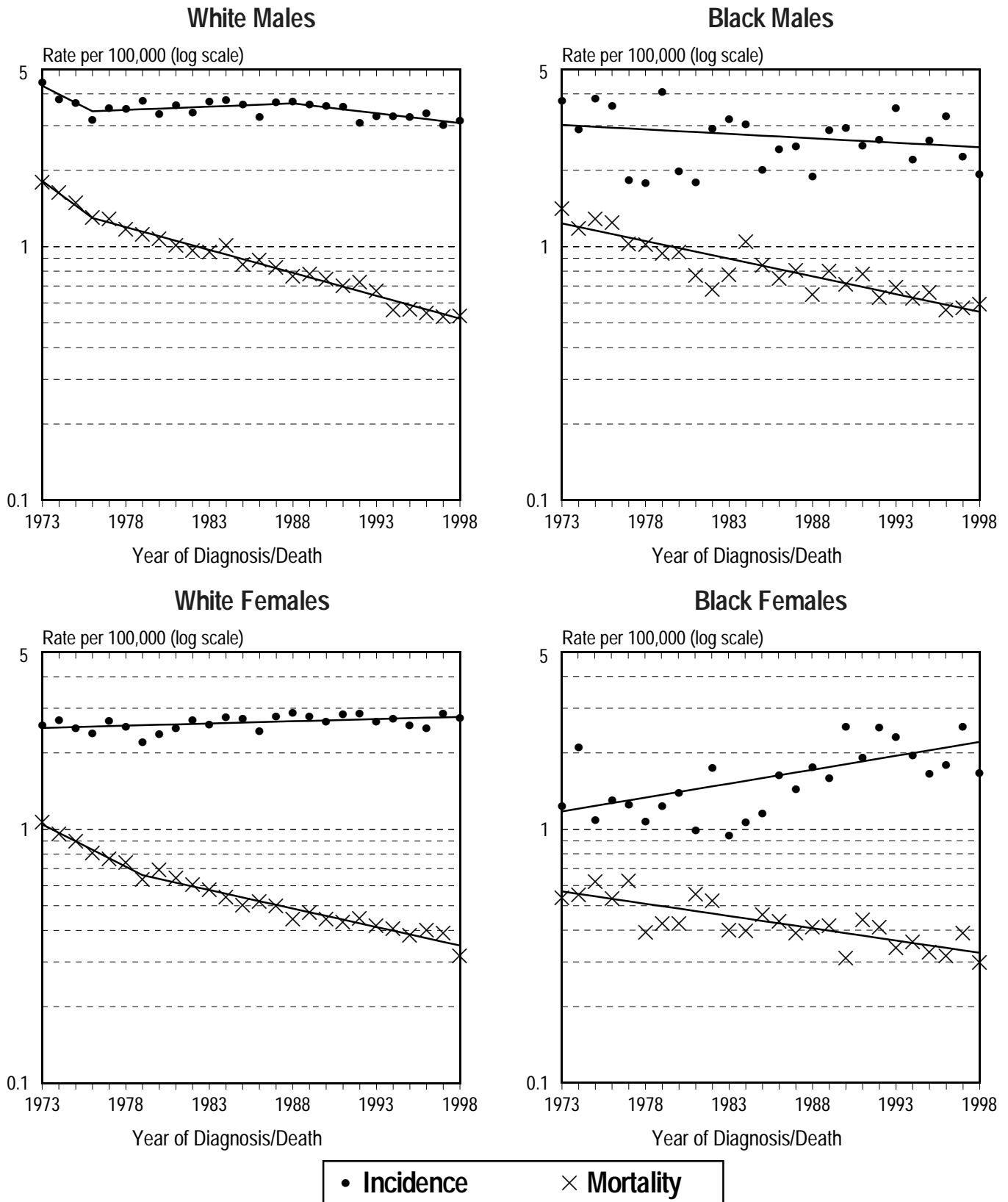SE   Standard error of the rate.
PD   Percent difference between state rate and total U.S. rate.
'   Absolute difference between state rate and total U.S. rate is 15% or more.
¾   Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Figure IX-1

SEER Incidence and U.S. Mortality Rates[+]
Hodgkin's Disease

White Males

Rate per 100,000 (log scale)

Year of Diagnosis/Death

Black Males

Rate per 100,000 (log scale)

Year of Diagnosis/Death

White Females

Rate per 100,000 (log scale)

Year of Diagnosis/Death

Black Females

Rate per 100,000 (log scale)

Year of Diagnosis/Death

• **Incidence**   × **Mortality**

[+] Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the Joinpoint Regression Program.