

Table XIII-1
LEUKEMIA (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1973-1999
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>						
Sex - Male and Female	1973-95	0.0	1973-97	0.0	1973-87	0.4
	1995-99	-2.9★	1997-99	-7.1★	1987-99	-1.8★
Sex - Male	1973-95	-0.1	1973-95	0.0	1973-99	-0.7★
	1995-99	-3.0★	1995-99	-3.5★		
Sex - Female	1973-96	0.0	1973-97	0.1	1973-99	-0.7★
	1996-99	-4.3★	1997-99	-7.4		
<u>U.S. Cancer Mortality^b</u>						
Sex - Male and Female	1973-80	0.3	1973-80	0.3	1973-90	0.7★
	1980-88	-0.6★	1980-88	-0.7★	1990-99	-0.7★
	1988-91	0.8	1988-91	0.8		
	1991-99	-0.5★	1991-99	-0.4★		
Sex - Male	1973-82	0.2	1973-82	0.2	1973-90	1.0★
	1982-87	-1.0	1982-87	-1.1	1990-99	-1.0★
	1987-95	0.2	1987-95	0.3		
	1995-99	-1.4★	1995-99	-1.3★		
Sex - Female	1973-99	-0.2★	1973-99	-0.2★	1973-81	1.7★
					1981-99	-0.1

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.

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

Table XIII-2
LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	12.5	16.7	9.5	12.8	17.4	9.6	11.3	15.1	8.8
1974	13.0	17.3	9.9	13.2	17.9	10.0	12.3	15.4	9.8
1975	12.8	16.9	10.0	13.1	17.5	10.1	11.5	16.2	8.5
1976	13.5	18.5	10.2	13.8	19.1	10.3	11.3	14.2	9.4
1977	12.7	16.3	10.2	13.2	17.0	10.5	10.2	13.6	7.7
1978	12.8	17.2	9.8	13.5	18.3	10.3	9.2	11.4	7.5
1979	12.5	16.8	9.7	13.0	17.5	10.0	10.6	13.6	8.6
1980	12.9	17.3	9.8	13.2	17.9	10.0	12.2	16.0	9.5
1981	12.4	16.5	9.6	12.7	17.1	9.8	12.2	14.5	10.3
1982	13.1	18.2	9.7	13.5	18.7	9.9	10.8	15.1	8.0
1983	13.1	17.8	9.8	13.4	18.4	10.0	12.5	16.0	10.1
1984	12.9	17.0	10.0	13.3	17.8	10.3	10.6	11.8	9.6
1985	13.3	17.6	10.4	13.7	18.1	10.6	12.2	16.7	9.3
1986	12.8	17.4	9.5	13.3	18.2	9.9	10.3	13.0	8.4
1987	13.3	17.6	10.3	13.7	18.3	10.5	12.5	17.5	9.2
1988	12.8	17.2	9.6	13.2	18.0	9.8	11.5	13.8	9.6
1989	13.3	17.5	10.3	13.8	18.1	10.8	11.0	15.6	7.8
1990	12.7	17.0	9.6	13.2	17.9	10.0	11.0	14.3	8.6
1991	12.9	16.5	10.1	13.4	17.3	10.5	10.8	11.9	10.1
1992	12.8	17.2	9.7	13.4	18.3	9.9	10.6	13.8	8.4
1993	12.7	16.5	9.8	13.2	17.3	10.0	11.4	15.0	8.8
1994	12.6	16.3	9.9	13.2	17.1	10.3	9.7	12.4	7.7
1995	13.1	17.1	10.1	13.9	18.2	10.7	9.4	12.5	7.1
1996	12.5	16.1	9.8	12.9	16.6	10.1	10.2	13.0	8.3
1997	12.4	16.5	9.4	13.0	17.3	9.9	9.6	12.7	7.3
1998	12.1	15.6	9.5	12.6	16.2	9.9	9.5	12.8	7.3
1999	11.2	14.7	8.5	11.4	15.1	8.6	9.5	12.0	7.6
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	12.2	16.0	9.4	12.7	16.7	9.8	9.7	12.6	7.6
Under 65	6.0	7.2	4.9	6.2	7.4	5.1	4.9	5.8	4.1
65 and over	55.1	76.9	40.7	57.9	80.8	42.8	42.6	59.8	31.6
All ages (world std.) ^ë	8.8	11.1	6.9	9.1	11.5	7.2	6.9	8.8	5.4
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	7.4	8.2	6.5	7.7	8.6	6.9	4.1	4.7	-
5-9	3.9	4.2	3.6	4.0	4.3	3.7	2.8	-	-
10-14	2.7	3.1	2.3	2.6	3.0	2.2	2.6	-	-
15-19	2.2	2.7	1.7	2.3	2.8	1.9	-	-	-
20-24	2.5	2.8	2.1	2.6	2.9	2.3	-	-	-
25-29	2.6	3.1	2.0	2.5	2.9	2.0	2.8	-	-
30-34	2.8	3.5	2.2	2.8	3.4	2.3	3.1	-	-
35-39	3.6	4.3	3.0	3.5	4.2	2.8	4.0	-	4.1
40-44	4.4	5.2	3.5	4.5	5.4	3.6	3.9	4.9	-
45-49	7.0	8.0	6.1	7.0	8.1	5.9	7.5	7.5	7.5
50-54	11.9	14.1	9.8	12.4	14.7	10.0	10.4	12.5	8.6
55-59	15.9	19.4	12.5	16.5	19.9	13.3	12.1	14.9	9.8
60-64	23.6	30.6	17.4	25.2	32.2	18.7	15.2	19.9	11.7
65-69	35.2	47.6	24.7	37.2	49.6	26.5	30.2	45.2	18.4
70-74	49.3	69.0	34.0	51.6	71.6	35.8	41.1	54.8	31.4
75-79	60.4	82.4	44.8	64.6	88.9	47.3	38.8	53.9	28.8
80-84	71.4	99.0	54.9	74.4	103.6	57.2	57.6	80.6	44.9
85+	83.2	122.5	66.5	85.9	128.3	68.8	62.7	88.9	50.8

§ 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.

ë 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 XIII-3
ACUTE LYMPHOCYTIC LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	1.1	1.5	0.7	1.1	1.5	0.8	-	-	-
1974	1.2	1.5	0.9	1.2	1.5	0.9	-	-	-
1975	0.9	1.1	0.8	1.0	1.2	0.8	-	-	-
1976	1.1	1.3	0.9	1.1	1.3	0.9	-	-	-
1977	1.1	1.3	0.9	1.2	1.4	1.0	-	-	-
1978	1.0	1.2	0.8	1.1	1.3	0.9	-	-	-
1979	1.0	1.2	0.9	1.1	1.2	1.0	-	-	-
1980	1.1	1.4	0.9	1.2	1.5	0.9	-	-	-
1981	1.2	1.3	1.2	1.3	1.4	1.2	-	-	-
1982	1.2	1.5	1.0	1.3	1.6	1.0	-	-	-
1983	1.3	1.5	1.1	1.4	1.7	1.2	-	-	-
1984	1.3	1.5	1.2	1.3	1.5	1.2	-	-	-
1985	1.3	1.5	1.1	1.4	1.6	1.1	-	-	-
1986	1.3	1.7	1.0	1.4	1.8	1.0	-	-	-
1987	1.3	1.5	1.2	1.4	1.6	1.2	-	-	-
1988	1.4	1.8	1.1	1.4	1.8	1.1	-	-	-
1989	1.6	1.8	1.4	1.7	1.9	1.5	1.0	-	-
1990	1.4	1.7	1.2	1.5	1.8	1.3	-	-	-
1991	1.4	1.8	1.1	1.5	2.0	1.1	-	-	-
1992	1.3	1.5	1.1	1.4	1.7	1.1	0.9	-	-
1993	1.3	1.4	1.1	1.3	1.5	1.1	-	-	-
1994	1.2	1.5	0.9	1.3	1.5	1.0	-	-	-
1995	1.5	1.8	1.2	1.6	1.9	1.3	0.9	-	-
1996	1.4	1.5	1.2	1.4	1.6	1.2	-	-	-
1997	1.3	1.5	1.2	1.4	1.6	1.2	0.8	-	-
1998	1.5	1.6	1.3	1.5	1.7	1.4	1.0	-	-
1999	1.2	1.4	1.1	1.3	1.5	1.1	-	-	-
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	1.4	1.6	1.2	1.4	1.6	1.2	0.8	1.0	0.7
Under 65	1.4	1.6	1.2	1.5	1.7	1.3	0.9	1.1	0.7
65 and over	1.2	1.4	1.1	1.3	1.4	1.2	-	-	-
All ages (world std.) [§]	1.7	2.0	1.5	1.8	2.1	1.6	1.1	1.3	0.9
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	6.1	6.8	5.3	6.5	7.2	5.7	2.9	-	-
5-9	3.3	3.6	3.0	3.4	3.8	3.0	2.4	-	-
10-14	1.8	2.0	1.5	1.8	2.1	1.5	-	-	-
15-19	1.2	1.5	0.8	1.3	1.6	0.9	-	-	-
20-24	0.8	1.0	0.6	0.8	1.0	-	-	-	-
25-29	0.6	0.8	-	0.6	0.7	-	-	-	-
30-34	0.5	0.6	-	0.5	0.7	-	-	-	-
35-39	0.5	-	0.5	0.5	-	0.6	-	-	-
40-44	0.4	-	-	0.4	-	-	-	-	-
45-49	0.5	0.6	-	0.4	-	-	-	-	-
50-54	0.8	1.0	0.7	0.9	1.1	-	-	-	-
55-59	0.7	-	-	0.7	-	-	-	-	-
60-64	0.9	1.3	-	0.9	1.4	-	-	-	-
65-69	1.1	-	1.1	1.2	-	-	-	-	-
70-74	1.2	1.6	-	1.2	1.7	-	-	-	-
75-79	1.3	-	-	1.3	-	-	-	-	-
80-84	1.2	-	-	1.4	-	-	-	-	-
85+	1.4	-	-	-	-	-	-	-	-

§ 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.

ë 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 XIII-4
CHRONIC LYMPHOCYTIC LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	4.1	6.1	2.8	4.3	6.3	2.9	4.7	-	-
1974	4.5	6.4	3.2	4.7	6.8	3.3	3.3	-	-
1975	4.3	5.9	3.3	4.5	6.1	3.4	4.8	6.9	-
1976	4.6	6.7	3.1	4.7	7.1	3.1	4.3	-	-
1977	4.2	5.7	3.1	4.4	5.9	3.3	3.8	5.8	-
1978	4.4	5.9	3.4	4.7	6.4	3.6	3.3	-	-
1979	4.0	5.7	2.9	4.3	6.1	3.1	3.1	-	-
1980	4.5	6.3	3.3	4.7	6.5	3.4	4.5	7.1	-
1981	4.2	6.3	2.9	4.5	6.6	3.0	3.7	5.4	-
1982	4.3	6.1	3.0	4.5	6.3	3.2	3.7	6.5	-
1983	4.4	6.4	3.1	4.6	6.8	3.2	4.2	6.1	-
1984	4.3	6.2	3.1	4.6	6.7	3.2	3.5	4.5	-
1985	4.4	6.1	3.3	4.7	6.5	3.5	4.1	6.1	-
1986	4.4	6.2	3.2	4.8	6.7	3.5	2.7	4.1	-
1987	4.6	6.7	3.0	4.9	7.1	3.2	4.0	6.1	-
1988	4.4	6.2	3.0	4.6	6.6	3.1	4.4	5.2	3.5
1989	4.5	6.3	3.3	4.8	6.7	3.5	3.8	5.3	-
1990	4.4	6.0	3.2	4.7	6.5	3.4	4.3	5.6	3.4
1991	4.4	5.9	3.3	4.7	6.4	3.5	3.4	-	3.2
1992	4.4	6.4	3.0	4.8	7.1	3.3	3.2	4.9	-
1993	4.1	5.7	3.0	4.4	6.0	3.1	4.3	6.4	2.7
1994	4.2	5.6	3.1	4.5	6.1	3.4	3.1	4.1	-
1995	4.2	6.0	2.8	4.5	6.4	3.1	3.0	4.6	-
1996	4.1	5.5	3.0	4.4	5.8	3.3	3.1	4.9	-
1997	3.8	5.3	2.8	4.1	5.6	3.0	2.7	3.9	-
1998	3.3	4.8	2.3	3.6	5.1	2.5	2.4	-	-
1999	3.0	4.5	2.0	3.2	4.7	2.0	2.9	4.5	-
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	3.7	5.2	2.6	3.9	5.5	2.8	2.8	4.1	2.0
Under 65	1.2	1.7	0.8	1.3	1.8	0.9	1.0	1.4	0.6
65 and over	20.5	29.1	14.8	22.0	31.2	15.9	15.7	22.8	11.1
All ages (world std.) ^ë	2.2	3.1	1.5	2.4	3.3	1.7	1.8	2.6	1.2
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-	-
35-39	0.3	0.6	-	0.3	-	-	-	-	-
40-44	0.6	0.9	-	0.7	1.0	-	-	-	-
45-49	1.7	2.2	1.2	1.8	2.4	1.2	-	-	-
50-54	3.9	5.2	2.7	4.1	5.4	2.8	3.9	-	-
55-59	6.0	8.2	3.9	6.5	8.7	4.4	-	-	-
60-64	8.8	12.4	5.5	9.4	13.0	6.1	6.6	-	-
65-69	13.8	19.0	9.4	15.0	20.2	10.5	10.9	17.3	-
70-74	19.2	27.4	12.8	20.4	28.7	13.9	16.2	22.7	-
75-79	21.7	29.9	15.9	23.6	32.8	17.1	14.0	-	-
80-84	25.3	34.3	20.0	26.6	35.7	21.2	20.8	-	-
85+	30.3	47.9	22.9	32.3	52.7	24.0	22.4	-	-

§ 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.

ë 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 XIII-5
ACUTE MYELOID LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	3.1	3.6	2.7	3.2	3.8	2.6	-	-	-
1974	3.1	3.8	2.6	3.1	3.8	2.6	3.6	-	-
1975	3.4	4.0	2.9	3.4	4.2	2.9	2.4	-	-
1976	3.4	4.3	2.8	3.4	4.4	2.8	2.6	-	-
1977	3.4	4.1	3.0	3.5	4.2	3.0	1.9	-	-
1978	3.3	4.3	2.6	3.4	4.5	2.7	2.7	-	-
1979	3.2	3.9	2.8	3.3	4.1	2.8	3.3	-	3.4
1980	3.0	4.0	2.3	3.1	4.0	2.4	2.8	-	-
1981	3.1	3.9	2.6	3.1	4.0	2.6	3.1	-	-
1982	3.3	4.7	2.5	3.4	4.8	2.6	2.4	-	-
1983	3.1	4.1	2.5	3.1	4.1	2.4	2.9	-	-
1984	3.2	4.0	2.7	3.3	4.1	2.7	2.3	-	-
1985	3.3	4.0	2.8	3.2	3.9	2.8	3.6	4.8	3.0
1986	2.9	3.8	2.3	2.9	3.8	2.3	3.2	4.0	2.7
1987	2.9	3.9	2.4	3.0	3.9	2.4	2.8	4.6	-
1988	2.9	3.7	2.4	3.0	3.8	2.4	2.7	-	2.5
1989	3.2	4.0	2.6	3.2	4.0	2.7	2.2	3.7	-
1990	3.0	3.8	2.4	3.0	3.9	2.4	2.2	-	-
1991	3.3	3.9	2.8	3.3	3.9	2.9	3.3	4.4	2.6
1992	3.2	3.8	2.8	3.2	4.0	2.7	3.1	3.0	3.1
1993	3.4	4.3	2.8	3.5	4.4	2.8	2.4	-	2.4
1994	3.4	4.0	3.0	3.4	4.1	2.9	2.8	3.2	2.6
1995	3.6	4.1	3.3	3.8	4.4	3.4	2.4	-	2.7
1996	3.5	4.3	2.9	3.4	4.3	2.9	3.1	3.7	2.8
1997	3.5	4.5	2.8	3.6	4.7	2.9	3.0	3.6	2.7
1998	3.8	4.8	3.2	4.0	4.9	3.3	2.9	4.1	2.2
1999	3.6	4.3	3.0	3.6	4.3	3.1	2.9	3.3	2.6
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	3.6	4.4	3.0	3.7	4.5	3.1	2.9	3.4	2.6
Under 65	1.8	1.9	1.7	1.8	1.9	1.7	1.5	1.5	1.5
65 and over	16.3	21.9	12.5	16.9	22.7	13.0	12.6	17.0	10.0
All ages (world std.) ^ë	2.5	3.0	2.2	2.5	3.0	2.2	2.0	2.2	1.8
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.8	0.9	0.7	0.7	0.7	-	-	-	-
5-9	0.4	-	-	0.4	-	-	-	-	-
10-14	0.7	0.8	-	0.6	-	-	-	-	-
15-19	0.8	0.9	0.6	0.7	0.9	-	-	-	-
20-24	1.2	1.2	1.1	1.2	1.3	1.1	-	-	-
25-29	1.1	1.3	0.9	1.0	1.1	0.9	-	-	-
30-34	1.0	1.1	0.9	1.0	1.0	1.0	-	-	-
35-39	1.4	1.3	1.4	1.3	1.3	1.2	-	-	-
40-44	1.8	1.8	1.8	1.8	1.9	1.8	-	-	-
45-49	2.3	2.2	2.5	2.2	2.1	2.3	2.7	-	-
50-54	3.5	3.8	3.2	3.7	4.0	3.3	-	-	-
55-59	4.6	4.7	4.5	4.7	4.9	4.6	-	-	-
60-64	7.0	8.1	6.0	7.4	8.3	6.5	-	-	-
65-69	10.9	14.2	8.2	11.5	14.8	8.7	8.4	-	-
70-74	15.5	20.9	11.2	16.1	21.6	11.8	10.9	-	-
75-79	18.3	24.1	14.2	19.2	25.8	14.6	12.2	-	-
80-84	21.3	28.4	17.1	21.7	28.3	17.9	20.8	-	-
85+	20.3	29.8	16.3	20.5	30.3	16.6	-	-	-

§ 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.

ë 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 XIII-6
CHRONIC MYELOID LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	1.9	2.4	1.6	1.9	2.5	1.5	-	-	-
1974	1.9	2.4	1.5	1.9	2.4	1.5	-	-	-
1975	2.0	2.9	1.3	2.0	3.0	1.3	-	-	-
1976	1.9	2.5	1.6	1.9	2.4	1.5	1.9	-	-
1977	1.7	2.1	1.4	1.7	2.1	1.4	-	-	-
1978	1.7	2.3	1.3	1.7	2.3	1.4	-	-	-
1979	1.9	2.5	1.4	1.9	2.5	1.5	1.9	-	-
1980	1.7	2.1	1.5	1.7	2.1	1.5	1.5	-	-
1981	1.6	2.0	1.4	1.6	1.9	1.4	2.4	-	-
1982	1.7	2.2	1.4	1.7	2.2	1.3	1.7	-	-
1983	1.7	2.2	1.3	1.6	2.2	1.3	2.5	-	-
1984	1.7	2.4	1.2	1.6	2.4	1.1	2.6	-	-
1985	2.0	2.8	1.4	2.0	2.8	1.5	2.1	-	-
1986	1.7	2.2	1.3	1.7	2.3	1.3	1.5	-	-
1987	1.9	2.3	1.6	1.9	2.4	1.6	2.1	-	-
1988	1.9	2.5	1.5	1.9	2.6	1.5	2.0	-	-
1989	1.7	2.2	1.3	1.7	2.2	1.3	2.2	-	-
1990	1.7	2.5	1.2	1.7	2.5	1.2	2.5	3.6	-
1991	1.9	2.4	1.5	1.9	2.5	1.5	1.6	-	-
1992	1.8	2.2	1.5	1.8	2.3	1.5	1.5	-	-
1993	1.9	2.5	1.5	1.9	2.4	1.5	2.3	3.6	-
1994	1.8	2.4	1.4	1.9	2.4	1.5	1.6	-	-
1995	1.8	2.5	1.3	1.9	2.6	1.3	1.5	-	-
1996	1.8	2.4	1.4	1.8	2.4	1.3	1.9	-	-
1997	1.8	2.6	1.2	1.8	2.6	1.3	1.6	-	-
1998	1.5	1.9	1.3	1.6	1.9	1.3	1.6	-	-
1999	1.5	2.0	1.2	1.5	2.0	1.1	1.6	-	-
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	1.7	2.2	1.3	1.7	2.3	1.3	1.7	2.2	1.3
Under 65	0.8	1.0	0.7	0.8	1.0	0.7	0.9	1.1	0.7
65 and over	7.6	10.9	5.3	7.7	11.2	5.4	7.0	10.1	4.9
All ages (world std.) ^ë	1.1	1.5	0.8	1.1	1.5	0.8	1.1	1.5	0.9
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.3	-	-	-	-	-	-	-	-
25-29	0.6	0.9	-	0.6	0.8	-	-	-	-
30-34	0.9	1.2	0.6	0.9	1.2	-	-	-	-
35-39	0.8	1.1	0.6	0.8	1.0	0.6	-	-	-
40-44	0.9	1.2	0.6	0.9	1.2	-	-	-	-
45-49	1.3	1.3	1.2	1.2	1.2	1.2	-	-	-
50-54	1.9	1.8	1.9	1.8	1.8	1.9	-	-	-
55-59	2.3	2.7	1.9	2.2	2.6	1.8	-	-	-
60-64	3.3	4.2	2.5	3.6	4.6	2.7	-	-	-
65-69	5.0	7.3	3.1	5.0	7.3	3.0	-	-	-
70-74	6.4	9.3	4.2	6.4	9.4	4.1	-	-	-
75-79	8.0	11.6	5.4	8.3	12.1	5.6	-	-	-
80-84	10.3	15.8	7.1	10.7	16.7	7.1	-	-	-
85+	11.9	15.5	10.4	12.2	15.6	10.9	-	-	-

§ 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.

ë 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 XIII-7
LEUKEMIAU.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^ä, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1973	8.2	10.9	6.3	8.3	11.1	6.4	6.8	9.2	5.1
1974	8.1	10.8	6.2	8.3	11.1	6.4	6.4	8.2	5.0
1975	8.1	11.0	6.2	8.3	11.3	6.3	6.6	8.6	5.1
1976	8.1	10.9	6.2	8.3	11.2	6.3	6.8	8.5	5.5
1977	8.1	10.8	6.3	8.3	11.1	6.3	6.8	8.8	5.5
1978	8.0	10.8	6.1	8.2	11.1	6.3	6.7	9.2	4.9
1979	8.3	11.1	6.4	8.4	11.4	6.5	7.0	8.9	5.7
1980	8.4	11.2	6.5	8.5	11.5	6.6	7.0	9.1	5.7
1981	8.1	10.9	6.2	8.2	11.2	6.3	7.1	8.9	5.9
1982	8.2	11.0	6.3	8.3	11.3	6.4	7.1	9.4	5.7
1983	8.1	10.9	6.3	8.2	11.2	6.3	7.2	9.2	5.9
1984	8.1	10.7	6.4	8.2	10.9	6.5	7.1	9.2	5.7
1985	8.1	10.8	6.3	8.2	11.0	6.4	7.1	9.6	5.4
1986	8.0	10.7	6.2	8.1	11.0	6.2	7.3	9.3	5.9
1987	7.8	10.3	6.1	7.9	10.5	6.2	7.2	9.4	5.9
1988	7.8	10.6	6.0	8.0	10.8	6.1	7.2	9.8	5.6
1989	8.0	10.6	6.2	8.1	10.8	6.3	7.4	10.3	5.5
1990	8.0	10.7	6.2	8.1	10.9	6.3	7.4	9.9	5.8
1991	8.0	10.5	6.3	8.1	10.6	6.5	7.4	10.0	5.8
1992	8.0	10.7	6.1	8.1	10.9	6.3	7.2	9.4	5.7
1993	8.0	10.7	6.1	8.1	10.9	6.2	7.4	9.7	5.8
1994	7.9	10.6	6.1	8.0	10.8	6.2	7.2	9.5	5.6
1995	7.9	10.8	6.0	8.1	11.0	6.1	7.2	9.7	5.6
1996	7.9	10.5	6.1	8.0	10.7	6.2	7.5	10.0	6.0
1997	7.8	10.4	6.0	8.0	10.7	6.1	6.9	9.1	5.4
1998	7.6	10.1	5.9	7.8	10.3	6.0	7.1	9.3	5.7
1999	7.8	10.2	6.1	7.9	10.5	6.2	6.8	8.7	5.6
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DEATH:</u>									
All ages	7.8	10.4	6.0	8.0	10.6	6.1	7.1	9.3	5.6
Under 65	2.7	3.2	2.2	2.7	3.2	2.2	3.0	3.8	2.4
65 and over	43.0	59.9	32.3	44.2	61.8	33.1	35.5	48.0	28.2
All ages (world std.) ^ö	4.8	6.2	3.7	4.8	6.3	3.7	4.6	5.9	3.6
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DEATH:</u>									
0-4	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.7
5-9	0.8	0.9	0.7	0.8	1.0	0.7	0.7	0.8	0.7
10-14	1.0	1.1	0.8	1.0	1.1	0.8	1.0	1.1	0.9
15-19	1.1	1.3	0.9	1.1	1.3	0.9	1.0	1.2	0.9
20-24	1.3	1.6	1.1	1.4	1.7	1.1	1.3	1.4	1.2
25-29	1.3	1.5	1.0	1.3	1.5	1.0	1.4	1.8	1.1
30-34	1.4	1.6	1.2	1.4	1.6	1.2	1.8	2.3	1.3
35-39	1.7	1.9	1.4	1.6	1.8	1.4	2.1	2.5	1.7
40-44	2.3	2.6	2.0	2.3	2.6	1.9	2.5	3.0	2.0
45-49	3.4	3.9	2.8	3.3	3.8	2.8	4.0	4.8	3.3
50-54	5.0	6.0	4.1	5.0	5.9	4.1	6.0	7.6	4.7
55-59	8.5	10.3	6.8	8.5	10.4	6.8	9.3	11.9	7.3
60-64	14.0	18.0	10.5	14.2	18.1	10.7	14.8	20.2	10.8
65-69	21.7	29.4	15.2	22.3	30.2	15.5	19.6	26.4	14.5
70-74	33.9	46.7	24.0	34.8	47.9	24.5	30.1	40.6	22.9
75-79	46.6	64.2	34.1	48.0	66.3	35.1	37.0	51.0	28.1
80-84	62.5	87.5	47.8	63.9	90.1	48.6	53.6	69.6	45.3
85+	80.1	114.8	66.0	82.9	119.7	68.0	58.7	80.7	49.6

ä 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.

ö 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 XIII-8
LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	14	-	-	-	-	-
1970-73 ^a	-	-	-	22	-	-	-	-	-
1974-76 ^b	34.4	33.2	35.9	35.2	33.9	36.8	31.2	32.2	30.2
1977-79 ^b	37.2	36.4	38.1	38.0	37.2	39.0	30.4	29.2	31.6
1980-82 ^b	38.7	38.5	39.0	39.5	39.6	39.3	32.9	30.1	36.2
1983-85 ^b	40.6	40.1	41.3	42.0	41.6	42.5	33.6	32.5	35.0
1986-88 ^b	43.1	44.1	41.7	44.2	45.5	42.4	38.0	36.7	39.5
1989-91 ^b	44.5	44.3	44.7	45.8	46.4	45.1	34.1	29.2	39.6
1992-98 ^b	45.9 \bar{U}	47.1 \bar{U}	44.3 \bar{U}	47.3 \bar{U}	48.4 \bar{U}	45.7 \bar{U}	38.4	37.9	39.0
<u>5-YR RELATIVE SURVIVAL RATES, 1992-98^b</u>									
AGE AT DIAGNOSIS:									
<45	59.8	59.0	60.9	61.4	60.3	63.0	52.3	50.0	55.2
45-54	54.0	56.1	50.6	56.8	58.1	54.4	42.9 \uparrow	41.7 \uparrow	44.6 \uparrow
55-64	48.6	51.4	44.1	51.2	54.3	46.1	33.5	34.7 \uparrow	32.8 \uparrow
65-74	41.7	40.0	44.1	43.7	41.6	46.6	32.7	32.5 \uparrow	32.3 \uparrow
75+	27.7	28.5	27.0	29.1	30.0	28.3	13.4	6.7	17.6 \uparrow
Under 65	55.2	56.0	54.1	57.2	57.9	56.1	46.0	44.4	48.3
65 and over	35.2	35.3	35.1	36.8	36.8	36.8	25.4	24.7	26.0

^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 1999.

\bar{U} The difference in rates between 1974-76 and 1992-98 is statistically significant ($p < .05$).
 \uparrow The standard error of the survival rate is between 5 and 10 percentage points.
 $\uparrow\uparrow$ The standard error of the survival rate is greater than 10 percentage points.
 - Statistic could not be calculated.

Table XIII-9
LYMPHOCYTIC LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
ACUTE LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1974-76 ^b	38.3	34.3	43.9	38.6	34.4	44.6	27.7 [†]	-	-
1977-79 ^b	51.0	47.6	55.8	52.0	49.5	55.6	40.9 [†]	-	-
1980-82 ^b	53.3	49.6	58.2	53.5	49.9	58.5	39.5 [†]	34.1 [†]	44.6 [†]
1983-85 ^b	51.3	48.2	55.4	52.6	49.5	56.7	35.2 [†]	37.8 [†]	-
1986-88 ^b	55.2	53.5	57.8	55.8	53.8	58.8	46.9 [†]	41.5 [†]	50.9 [†]
1989-91 ^b	58.9	57.4	61.1	59.7	58.7	61.0	49.6 [†]	53.0 [†]	46.3 [†]
1992-98 ^b	63.5 [‡]	61.6 [‡]	66.1 [‡]	63.4 [‡]	61.5 [‡]	66.0 [‡]	58.3 [‡]	53.4 [†]	62.5 [†]
ACUTE LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1992-98^b									
AGE AT DIAGNOSIS:									
<45	73.2	70.3	77.4	73.6	70.4	78.2	63.9	59.3 [†]	68.7 [†]
45-54	30.2 [†]	28.5 [†]	33.5 [†]	27.4 [†]	26.8 [†]	28.1 [†]	-	-	-
55-64	19.2	20.0 [†]	18.3 [†]	18.5	23.0 [†]	0.0	-	-	-
65-74	12.9	13.1 [†]	14.6 [†]	14.6	14.3 [†]	17.6 [†]	-	-	-
75+	3.0	3.6	0.0	3.3	4.2	0.0	-	-	-
Under 65	68.4	65.4	72.6	68.5	65.3	73.1	61.1	56.2 [†]	65.5 [†]
65 and over	8.5	10.2	7.3	9.6	11.3	8.3	-	-	-
CHRONIC LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1974-76 ^b	68.2	65.6	71.7	68.6	65.7	72.4	63.2 [†]	64.5 [†]	61.3 [†]
1977-79 ^b	70.0	68.3	72.2	71.2	69.1	73.8	51.0 [†]	53.8 [†]	47.6 [†]
1980-82 ^b	68.3	67.8	69.1	69.2	69.2	69.1	57.5 [†]	50.7 [†]	69.2 [†]
1983-85 ^b	73.3	71.9	75.4	73.7	72.2	75.9	68.0 [†]	65.9 [†]	67.4 [†]
1986-88 ^b	73.2	72.0	75.1	74.2	73.2	75.6	65.5	62.7 [†]	69.8 [†]
1989-91 ^b	72.5	71.6	73.8	73.8	72.8	75.2	55.3	50.1 [†]	60.7 [†]
1992-98 ^b	73.1 [‡]	73.0 [‡]	73.2	74.4 [‡]	74.4 [‡]	74.4	54.6	52.6 [†]	58.1 [†]
CHRONIC LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1992-98^b									
AGE AT DIAGNOSIS:									
<45	84.3	83.6	86.1 [†]	84.3	84.2	84.3 [†]	-	-	-
45-54	82.8	81.3	85.9	85.7	84.5	88.6	55.4 [†]	49.6 [†]	-
55-64	82.4	82.4	82.6	84.5	85.4	83.0	65.1 [†]	58.7 [†]	-
65-74	75.5	71.3	81.4	76.4	71.9	82.5	61.4 [†]	57.6 [†]	66.6 [†]
75+	58.5	59.0	58.1	59.8	60.2	59.6	27.9 [†]	18.0 [†]	32.4 [†]
Under 65	82.6	82.0	83.9	84.8	84.8	84.9	63.5 [†]	57.4 [†]	82.4 [†]
65 and over	67.9	66.4	69.4	68.9	67.2	70.7	48.0 [†]	46.6 [†]	49.1 [†]

^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 1999.

[†] The difference in rates between 1974-76 and 1992-98 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 XIII-10
MYELOID LEUKEMIA

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
ACUTE MYELOID LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1974-76 ^b	5.8	5.1	6.5	5.9	5.5	6.3	7.4	2.8	10.7
1977-79 ^b	8.4	7.4	9.5	7.5	6.2	8.9	16.0	15.6†	16.4†
1980-82 ^b	8.4	7.3	9.6	7.7	6.0	9.8	11.5	14.1†	8.4
1983-85 ^b	11.0	10.4	11.8	10.8	10.5	11.2	10.1	9.3	10.9
1986-88 ^b	11.5	9.1	14.3	11.6	9.8	13.8	9.9	3.5	15.7
1989-91 ^b	13.4	11.8	15.2	12.8	11.9	13.7	12.4	8.3	18.1†
1992-98 ^b	18.7 ^U	17.7 ^U	19.7 ^U	18.1 ^U	17.0 ^U	19.4 ^U	22.3 ^U	24.7 ^U	19.5
ACUTE MYELOID LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1992-98^b									
AGE AT DIAGNOSIS:									
<45	41.4	40.8	42.2	42.4	40.7	44.3	41.4†	46.8†	36.0†
45-54	29.1	26.9	31.5	28.8	25.7	32.5	34.6†	-	-
55-64	13.4	11.7	15.5	14.5	12.7	16.8	5.5	-	-
65-74	5.9	5.0	7.1	6.5	5.7	7.5	0.0	0.0	0.0
75+	2.0	2.1	1.5	1.7	2.1	1.0	0.0	0.0	0.0
Under 65	30.7	28.9	32.7	30.6	28.0	33.8	33.6	39.4†	28.6
65 and over	4.1	3.9	4.3	4.3	4.3	4.3	0.0	0.0	0.0
CHRONIC MYELOID LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1974-76 ^b	22.6	19.7	26.5	22.2	18.7	27.0	24.9†	28.3†	20.2†
1977-79 ^b	23.5	22.3	25.0	23.0	22.3	23.9	25.4†	18.4†	33.8†
1980-82 ^b	31.1	28.3	34.2	32.2	30.5	34.0	26.7†	18.3†	36.8†
1983-85 ^b	24.7	22.1	28.2	25.5	22.6	29.3	23.2	20.7†	26.1†
1986-88 ^b	28.8	29.9	27.5	28.4	29.7	26.6	37.8†	34.1†	42.4†
1989-91 ^b	32.8	30.3	36.0	33.0	32.0	34.3	30.7†	19.9†	44.2†
1992-98 ^b	34.5 ^U	35.6 ^U	33.1	34.9 ^U	35.9 ^U	33.7	34.4	32.3†	37.3†
CHRONIC MYELOID LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1992-98^b									
AGE AT DIAGNOSIS:									
<45	49.2	47.8	51.9	49.8	47.8	53.2	47.8†	41.3†	60.3†
45-54	45.1	45.3	44.8†	48.1	47.2	49.0†	39.6†	-	-
55-64	34.9	37.3	31.5	35.3	37.6	32.2†	21.3†	-	-
65-74	27.6	25.8	29.7	28.8	27.5	30.5	30.3†	26.3†	-
75+	15.8	16.3	15.6	16.7	17.1	16.4	9.6†	-	-
Under 65	44.1	44.5	43.6	45.0	44.9	45.1	39.6†	37.0†	44.3†
65 and over	22.1	21.8	22.5	23.0	23.0	23.1	24.8†	20.8†	28.5†

^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 1999.

^U The difference in rates between 1974-76 and 1992-98 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 XIII-11

LEUKEMIAINCIDENCE, DEATH, AND SURVIVAL RATES*

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	1999
Incidence																					
SEER ^a	12.8	12.9	12.4	13.1	13.1	12.9	13.3	12.8	13.3	12.8	13.3	12.7	12.9	12.8	12.7	12.6	13.1	12.5	12.4	12.1	11.2
Mortality																					
U.S. ^b	8.1	8.4	8.1	8.2	8.1	8.1	8.1	8.0	7.8	7.8	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.9	7.8	7.6	7.8
SEER ^a	8.3	8.2	7.8	8.4	8.1	7.9	8.1	7.6	7.9	7.8	7.8	7.6	7.9	7.7	7.8	7.7	7.8	7.7	7.3	7.6	7.4
Relative Survival Rates (SEER ^a)																					
1-year	61.4	65.5	64.6	61.9	62.2	64.2	64.9	64.9	64.3	66.7	64.9	66.8	66.2	67.4	66.7	66.0	67.1	67.1	65.8	63.5	
2-year	50.1	55.0	54.3	51.6	53.0	53.5	55.7	55.2	54.0	57.0	56.1	56.1	56.7	58.2	57.1	57.1	57.5	58.0	56.9		
3-year	43.1	49.1	48.0	46.0	47.8	47.7	49.4	49.3	48.7	51.3	51.0	51.2	51.1	53.3	53.3	52.7	52.7	53.3			
4-year	38.0	43.9	42.4	42.7	43.7	42.4	45.7	45.4	45.1	47.7	46.4	47.9	46.7	49.7	49.7	49.3	49.0				
5-year	34.0	38.7	38.5	38.9	39.8	39.5	42.5	42.2	42.0	45.0	43.8	45.5	44.1	46.8	46.4	46.4					
6-year	30.6	36.6	35.2	36.1	38.4	36.7	40.0	39.9	40.2	42.7	40.9	41.8	42.2	44.3	44.2						
7-year	29.0	34.4	32.5	33.8	36.1	34.3	38.0	37.8	37.4	39.9	38.2	39.2	39.7	41.5							
8-year	26.9	32.3	30.4	31.6	34.7	32.0	36.0	35.6	35.3	37.5	36.3	37.1	37.3								
9-year	24.6	30.6	28.7	30.5	32.6	30.4	33.5	34.0	33.5	36.1	34.4	35.6									
10-year	23.0	28.8	27.5	29.8	31.1	28.8	32.7	32.8	31.9	34.9	33.0										
11-year	21.6	27.5	26.4	29.2	30.1	27.5	30.9	31.3	31.0	32.9											
12-year	20.6	27.0	26.1	27.6	28.8	26.3	30.4	30.7	29.5												
13-year	20.3	26.1	25.4	26.9	27.2	25.7	30.0	29.9													
14-year	20.2	25.7	25.2	26.5	27.1	25.3	28.9														
15-year	19.7	24.8	24.3	26.0	26.2	25.3															
16-year	18.7	23.5	23.8	25.3	26.0																
17-year	18.2	23.1	23.4	24.4																	
18-year	17.4	23.1	23.4																		
19-year	17.2	22.4																			
20-year	16.1																				
21-year	16.0																				
22-year	15.3																				
23-year	14.0																				
24-year	13.6																				

^a Rates are from the SEER 9 areas.^b Rates are from the NCHS public use data file.

* 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 XIII-12

LEUKEMIAINCIDENCE, DEATH, AND SURVIVAL RATES*

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Incidence																					
SEER ^a	16.9	17.3	16.5	18.2	17.8	17.0	17.6	17.4	17.6	17.2	17.5	17.0	16.5	17.2	16.5	16.3	17.1	16.1	16.5	15.6	14.7
Mortality																					
U.S. ^b	11.0	11.2	10.9	11.0	10.9	10.7	10.8	10.7	10.3	10.6	10.6	10.7	10.5	10.7	10.7	10.6	10.8	10.5	10.4	10.1	10.2
SEER ^a	11.3	11.4	10.7	11.6	11.0	10.6	10.8	10.7	10.2	10.5	10.2	10.3	10.2	10.6	10.4	10.0	10.1	10.0	9.7	10.2	9.9
Relative Survival Rates (SEER ^a)																					
1-year	61.5	65.3	64.1	62.6	62.9	65.0	65.6	64.8	65.9	67.9	65.2	67.6	67.3	68.0	68.0	67.9	68.8	68.8	67.0	63.2	
2-year	50.3	55.0	53.7	51.7	53.2	54.1	55.8	55.0	56.6	57.9	57.2	56.2	57.7	58.6	58.8	58.4	59.4	60.1	58.4		
3-year	43.1	48.4	47.2	46.0	47.7	47.5	48.7	48.5	50.9	52.0	51.8	50.8	51.8	53.3	55.0	53.1	54.5	55.7			
4-year	37.7	43.1	41.9	42.7	43.2	41.8	44.7	44.9	47.6	48.5	47.3	47.2	46.4	50.2	51.6	50.6	50.4				
5-year	33.4	38.1	38.4	38.9	39.6	38.4	42.3	41.7	44.2	46.4	45.0	43.8	44.1	47.9	47.7	47.4					
6-year	29.8	36.1	34.6	36.2	38.1	35.3	39.7	39.8	41.5	44.0	42.1	39.7	42.4	44.8	45.8						
7-year	27.8	33.4	32.1	34.1	36.2	32.6	37.3	37.3	38.5	41.4	38.9	37.3	39.7	41.7							
8-year	25.4	31.1	29.4	31.4	35.4	29.5	35.1	35.0	37.0	38.7	37.1	34.8	37.4								
9-year	22.7	29.6	27.4	30.5	33.5	27.3	32.8	32.9	35.6	37.0	35.1	33.5									
10-year	21.3	27.6	25.8	30.0	32.6	26.3	31.8	31.5	33.6	35.4	33.4										
11-year	19.9	26.3	24.4	29.2	31.6	25.5	30.0	30.6	32.7	34.1											
12-year	18.8	26.3	24.2	28.2	31.3	24.5	29.5	29.7	30.8												
13-year	18.7	25.3	23.5	28.2	29.7	24.1	29.4	29.4													
14-year	18.3	25.0	23.2	28.0	29.5	24.1	28.9														
15-year	17.7	24.4	22.1	27.7	28.6	24.1															
16-year	17.1	22.5	21.9	26.9	28.6																
17-year	16.6	22.1	21.4	26.0																	
18-year	15.4	22.1	21.4																		
19-year	15.4	21.9																			
20-year	14.1																				
21-year	13.9																				
22-year	13.4																				
23-year	12.2																				
24-year	12.2																				

^a Rates are from the SEER 9 areas.^b Rates are from the NCHS public use data file.

* 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 XIII-13

LEUKEMIAINCIDENCE, DEATH, 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	1999
Incidence																					
SEER ^a	10.0	9.8	9.6	9.7	9.8	10.0	10.4	9.5	10.3	9.6	10.3	9.6	10.1	9.7	9.8	9.9	10.1	9.8	9.4	9.5	8.5
Mortality																					
U.S. ^b	6.2	6.5	6.2	6.3	6.3	6.4	6.3	6.2	6.1	6.0	6.2	6.2	6.3	6.1	6.1	6.1	6.0	6.1	6.0	5.9	6.1
SEER ^a	6.3	6.1	5.9	6.4	6.2	6.1	6.2	5.4	6.4	6.0	6.2	5.8	6.2	5.7	6.0	6.0	6.3	6.1	5.7	5.7	5.6
Relative Survival Rates (SEER ^a)																					
1-year	61.2	65.6	65.2	60.8	61.4	63.2	64.0	65.1	62.1	65.1	64.6	65.8	64.8	66.6	64.9	63.5	64.8	65.0	64.3	63.7	
2-year	49.8	55.0	55.1	51.4	52.6	52.6	55.7	55.5	50.7	55.7	54.7	55.9	55.3	57.7	55.1	55.4	55.0	55.3	55.0		
3-year	43.1	50.0	49.0	45.9	48.0	47.8	50.4	50.5	45.9	50.2	49.9	51.8	50.2	53.2	51.1	52.0	50.3	50.2			
4-year	38.3	45.0	43.0	42.8	44.3	43.2	47.0	46.2	41.9	46.6	45.3	48.7	47.1	49.1	47.4	47.5	47.1				
5-year	34.6	39.4	38.7	39.0	40.1	41.0	42.8	42.8	39.3	43.1	42.3	47.9	44.2	45.3	44.7	45.1					
6-year	31.6	37.2	36.0	36.0	38.7	38.6	40.5	40.0	38.5	41.0	39.3	44.5	41.9	43.6	42.2						
7-year	30.3	35.8	33.0	33.3	36.0	36.4	38.8	38.5	36.0	38.0	37.3	41.8	39.6	41.3							
8-year	28.7	33.9	31.6	31.8	33.7	35.1	36.9	36.4	33.0	36.0	35.4	40.1	37.1								
9-year	26.7	32.0	30.3	30.5	31.5	34.3	34.3	35.6	30.9	34.9	33.6	38.3									
10-year	24.9	30.3	29.6	29.7	29.1	31.9	33.8	34.5	29.9	34.2	32.4										
11-year	23.7	29.0	28.9	29.2	28.0	30.0	31.9	32.4	29.0	31.4											
12-year	22.6	27.6	28.4	26.7	25.6	28.5	31.4	31.9	27.8												
13-year	22.1	27.1	27.7	25.0	24.0	27.8	30.8	30.6													
14-year	22.1	26.6	27.6	24.4	23.9	26.6	28.9														
15-year	21.9	25.3	26.9	23.8	23.1	26.5															
16-year	20.4	24.8	26.0	23.2	22.7																
17-year	19.9	24.3	25.7	22.3																	
18-year	19.6	24.3	25.2																		
19-year	19.2	23.0																			
20-year	18.2																				
21-year	18.2																				
22-year	17.3																				
23-year	15.9																				
24-year	15.0																				

^a Rates are from the SEER 9 areas.^b Rates are from the NCHS public use data file.

* 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 XIII-14

LEUKEMIA

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

1997-1999

All Races

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.06	0.09	0.12	1.46	0.06	0.08	0.10	1.02	
10	0.03	0.06	0.10	1.41	0.02	0.05	0.07	0.97	
20	0.03	0.07	0.13	1.39	0.02	0.05	0.09	0.95	
30	0.04	0.10	0.24	1.37	0.02	0.07	0.17	0.93	
40	0.06	0.21	0.51	1.36	0.05	0.15	0.31	0.92	
50	0.15	0.47	0.92	1.35	0.10	0.27	0.53	0.89	
60	0.34	0.83	1.20	1.29	0.18	0.45	0.73	0.82	
Lifetime Risk of Being Diagnosed =				1.46%	Lifetime Risk of Being Diagnosed =				1.02%
Lifetime Risk of Dying =				0.94%	Lifetime Risk of Dying =				0.73%

Whites

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.07	0.10	0.13	1.55	0.06	0.09	0.11	1.08	
10	0.03	0.06	0.10	1.49	0.03	0.05	0.07	1.02	
20	0.03	0.07	0.13	1.47	0.02	0.05	0.10	1.00	
30	0.03	0.10	0.24	1.45	0.02	0.07	0.17	0.98	
40	0.06	0.21	0.54	1.44	0.05	0.15	0.33	0.96	
50	0.15	0.49	0.98	1.42	0.10	0.29	0.56	0.93	
60	0.36	0.89	1.27	1.37	0.20	0.48	0.77	0.86	
Lifetime Risk of Being Diagnosed =				1.55%	Lifetime Risk of Being Diagnosed =				1.08%
Lifetime Risk of Dying =				0.99%	Lifetime Risk of Dying =				0.75%

Blacks

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.03	0.06	0.08	0.88	0.03	0.05	0.06	0.71	
10	0.02	0.05	0.09	0.86	0.02	0.03	0.06	0.69	
20	0.02	0.06	0.11	0.84	0.02	0.04	0.08	0.68	
30	0.04	0.09	0.22	0.85	0.02	0.07	0.16	0.67	
40	0.05	0.18	0.39	0.83	0.04	0.14	0.24	0.65	
50	0.15	0.36	0.61	0.84	0.10	0.21	0.39	0.64	
60	0.26	0.54	0.79	0.82	0.12	0.32	0.51	0.59	
Lifetime Risk of Being Diagnosed =				0.88%	Lifetime Risk of Being Diagnosed =				0.71%
Lifetime Risk of Dying =				0.63%	Lifetime Risk of Dying =				0.55%

Table XIII-15
LEUKEMIA (Invasive)

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

By Race/Ethnicity and Sex

Incidenceⁱ

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	12.2	16.0	9.4	-1.6★	-1.7★
White	12.8	16.9	9.8	-1.7★	-2.0★	-1.4
White Hispanic	9.4	11.6	7.7	-1.3	-1.4	-1.3
White Non-Hispanic	12.8	17.1	9.7	-1.7	-2.0★	-1.5
Black	9.9	12.6	7.9	-2.0★	-1.7	-2.1
Asian/Pacific Islander	8.1	10.1	6.6	-0.2	1.3	-1.7
Amer Ind/Alaska Nat	4.3	5.3	3.5	6.8	-	-
Hispanic [⊗]	8.9	11.0	7.3	-1.3	-1.4	-1.4

Mortality[❖]

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	7.9	10.5	6.0	-0.5★	-0.8★
White	8.0	10.7	6.1	-0.5★	-0.7★	-0.3
White Hispanic	5.3	6.5	4.4	0.1	0.2	-0.3
White Non-Hispanic	8.1	10.9	6.2	-0.4★	-0.8★	-0.3
Black	7.2	9.4	5.7	-0.7	-1.0	-0.4
Asian/Pacific Islander	4.4	5.5	3.5	-0.4	-0.8	0.4
Amer Ind/Alaska Nat	3.9	4.9	3.2	-3.2	-2.9	-3.4
Hispanic [⊗]	5.1	6.2	4.2	-0.1	0.0	-0.4

- The EAPC is the Estimated 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.
- ⁱ 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).
- [⊗] Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics does 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.
- [❖] Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).
- [★] The EAPC is significantly different from zero (p<.05).

Table XIII-16
ALL LEUKEMIAAGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER DEATH RATESä
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1995-99</u>									
REGISTRY									
11 registries	12.1	15.8	9.3	12.6	16.6	9.7	9.6	12.4	7.7
9 registries	12.2	16.0	9.4	12.7	16.7	9.8	9.7	12.6	7.6
San Francisco-Oakland	11.1	14.5	8.6	12.0	15.4	9.4	8.2	10.4	6.4
Connecticut	12.0	15.8	9.4	12.1	16.0	9.4	9.8	12.1	8.5
Metropolitan Detroit	13.1	16.6	10.7	13.9	17.7	11.2	9.8	12.0	8.3
Hawaii	9.8	12.2	7.8	12.8	16.0	10.0	-	-	-
Iowa	14.3	19.6	10.3	14.2	19.5	10.2	14.1	-	-
New Mexico	11.2	14.1	9.0	11.6	14.3	9.5	-	-	-
Seattle-Puget Sound	13.7	18.1	10.5	14.0	18.3	10.8	11.8	14.8	9.2
Utah	10.7	13.9	8.2	10.8	13.9	8.2	-	-	-
Metropolitan Atlanta	10.3	14.1	7.7	10.4	13.7	8.0	9.8	15.4	6.5
San Jose-Monterey	11.2	14.8	8.4	11.4	15.4	8.5	-	-	-
Los Angeles	11.6	15.4	8.9	12.4	16.5	9.4	9.5	11.9	7.8
<u>SEER DEATH RATESä, 1995-99</u>									
REGISTRY									
11 registries	7.4	9.8	5.7	7.7	10.3	5.9	7.1	9.1	5.7
9 registries	7.5	10.0	5.9	7.8	10.4	6.0	7.2	9.6	5.7
San Francisco-Oakland	7.1	9.2	5.7	7.6	9.8	6.1	6.5	8.9	4.9
Connecticut	7.5	10.2	5.7	7.6	10.2	5.8	6.8	9.2	5.3
Metropolitan Detroit	7.5	10.0	5.9	7.6	10.1	5.9	7.3	9.6	5.7
Hawaii	5.6	6.7	4.7	7.0	7.9	6.1	-	-	-
Iowa	8.4	11.4	6.3	8.4	11.4	6.2	-	-	-
New Mexico	7.3	9.3	5.6	7.4	9.5	5.7	-	-	-
Seattle-Puget Sound	8.0	10.7	6.1	8.2	11.0	6.2	6.0	-	-
Utah	7.3	9.6	5.5	7.3	9.6	5.5	-	-	-
Metropolitan Atlanta	8.1	10.9	6.4	8.3	11.1	6.5	8.0	10.6	6.3
San Jose-Monterey	6.4	8.6	4.8	6.8	9.2	5.2	-	-	-
Los Angeles	7.2	9.6	5.5	7.6	10.3	5.7	6.8	8.1	5.9

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 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
 ä 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 XIII-17

LEUKEMIAAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^ä RATES BY STATE, 1995-99

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	7.8	0.02		
High Five States				
Wyoming	9.0*	0.64	(01)	15.4
South Dakota	8.8	0.47	(02)	12.8
Minnesota	8.7⊕	0.19	(03)	11.5
West Virginia	8.7	0.29	(04)	11.5
Wisconsin	8.6⊕	0.18	(05)	10.3
Low Five States				
Utah	7.3	0.31	(47)	-6.4
Maine	7.2	0.33	(48)	-7.7
Arizona	7.1⊕	0.18	(49)	-9.0
District of Columbia	7.1	0.51	(50)	-9.0
Hawaii	5.6⊕*	0.31	(51)	-28.2

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	8.0	0.19	(22)	2.6	Montana	8.5	0.43	(07)	9.0
Alaska	7.4	0.81	(41)	-5.1	Nebraska	8.0	0.30	(25)	2.6
Arizona	7.1⊕	0.18	(49)	-9.0	Nevada	7.7	0.33	(34)	-1.3
Arkansas	8.2	0.25	(11)	5.1	New Hampshire	8.0	0.38	(23)	2.6
California	7.3⊕	0.07	(45)	-6.4	New Jersey	8.2	0.14	(12)	5.1
Colorado	7.8	0.22	(29)	0.0	New Mexico	7.3	0.31	(46)	-6.4
Connecticut	7.5	0.21	(38)	-3.8	New York	7.4⊕	0.09	(40)	-5.1
Delaware	8.0	0.48	(20)	2.6	North Carolina	7.7	0.15	(35)	-1.3
District of Columbia	7.1	0.51	(50)	-9.0	North Dakota	8.5	0.49	(06)	9.0
Florida	7.6	0.09	(37)	-2.6	Ohio	8.3⊕	0.12	(10)	6.4
Georgia	7.7	0.16	(36)	-1.3	Oklahoma	8.4	0.22	(08)	7.7
Hawaii	5.6⊕*	0.31	(51)	-28.2	Oregon	7.9	0.22	(26)	1.3
Idaho	8.0	0.38	(19)	2.6	Pennsylvania	8.2	0.11	(15)	5.1
Illinois	8.1	0.12	(17)	3.8	Rhode Island	7.3	0.36	(44)	-6.4
Indiana	8.2	0.17	(13)	5.1	South Carolina	7.8	0.21	(33)	0.0
Iowa	8.4	0.23	(09)	7.7	South Dakota	8.8	0.47	(02)	12.8
Kansas	7.9	0.24	(27)	1.3	Tennessee	8.2	0.18	(14)	5.1
Kentucky	7.9	0.20	(28)	1.3	Texas	7.8	0.10	(31)	0.0
Louisiana	8.1	0.20	(16)	3.8	Utah	7.3	0.31	(47)	-6.4
Maine	7.2	0.33	(48)	-7.7	Vermont	7.8	0.52	(32)	0.0
Maryland	7.4	0.18	(42)	-5.1	Virginia	7.5	0.16	(39)	-3.8
Massachusetts	7.4	0.15	(43)	-5.1	Washington	8.0	0.18	(24)	2.6
Michigan	7.8	0.13	(30)	0.0	West Virginia	8.7	0.29	(04)	11.5
Minnesota	8.7⊕	0.19	(03)	11.5	Wisconsin	8.6⊕	0.18	(05)	10.3
Mississippi	8.0	0.25	(21)	2.6	Wyoming	9.0*	0.64	(01)	15.4
Missouri	8.1	0.17	(18)	3.8					

ä 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.

SE Standard error of the rate.

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

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

⊕ Difference between state rate and total U.S. rate is statistically significant ($p < .0002$).

Table XIII-18
ALL LEUKEMIASAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^ä RATES BY STATE, 1995-99

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	10.4	0.04		
High Five States				
South Dakota	12.6*	0.87	(01)	21.2
Wyoming	12.3*	1.16	(02)	18.3
North Dakota	12.0*	0.89	(03)	15.4
Minnesota	11.9⊕	0.36	(04)	14.4
West Virginia	11.5	0.53	(05)	10.6
Low Five States				
Maine	9.4	0.60	(47)	-9.6
New Mexico	9.3	0.54	(48)	-10.6
Alaska	9.3	1.43	(49)	-10.6
Arizona	9.0⊕	0.30	(50)	-13.5
Hawaii	6.7⊕*	0.50	(51)	-35.6

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	10.9	0.36	(22)	4.8	Montana	10.9	0.75	(19)	4.8
Alaska	9.3	1.43	(49)	-10.6	Nebraska	10.4	0.54	(31)	0.0
Arizona	9.0⊕	0.30	(50)	-13.5	Nevada	9.9	0.58	(43)	-4.8
Arkansas	10.9	0.44	(18)	4.8	New Hampshire	11.1	0.72	(10)	6.7
California	9.6⊕	0.13	(44)	-7.7	New Jersey	11.0	0.26	(16)	5.8
Colorado	10.7	0.41	(26)	2.9	New Mexico	9.3	0.54	(48)	-10.6
Connecticut	10.2	0.38	(34)	-1.9	New York	9.9	0.16	(40)	-4.8
Delaware	11.4	0.95	(07)	9.6	North Carolina	10.3	0.28	(33)	-1.0
District of Columbia	9.4	0.95	(46)	-9.6	North Dakota	12.0*	0.89	(03)	15.4
Florida	9.9	0.16	(42)	-4.8	Ohio	11.1	0.22	(13)	6.7
Georgia	10.4	0.31	(29)	0.0	Oklahoma	11.5	0.41	(06)	10.6
Hawaii	6.7⊕*	0.50	(51)	-35.6	Oregon	10.2	0.38	(36)	-1.9
Idaho	11.0	0.68	(17)	5.8	Pennsylvania	10.8	0.20	(24)	3.8
Illinois	10.8	0.22	(23)	3.8	Rhode Island	10.0	0.68	(38)	-3.8
Indiana	10.7	0.31	(27)	2.9	South Carolina	10.3	0.41	(32)	-1.0
Iowa	11.4	0.41	(08)	9.6	South Dakota	12.6*	0.87	(01)	21.2
Kansas	10.2	0.43	(35)	-1.9	Tennessee	11.1	0.34	(12)	6.7
Kentucky	11.1	0.39	(11)	6.7	Texas	10.5	0.19	(28)	1.0
Louisiana	11.0	0.39	(15)	5.8	Utah	9.6	0.56	(45)	-7.7
Maine	9.4	0.60	(47)	-9.6	Vermont	10.9	0.99	(20)	4.8
Maryland	9.9	0.33	(41)	-4.8	Virginia	10.0	0.30	(37)	-3.8
Massachusetts	10.0	0.28	(39)	-3.8	Washington	10.7	0.32	(25)	2.9
Michigan	10.4	0.24	(30)	0.0	West Virginia	11.5	0.53	(05)	10.6
Minnesota	11.9⊕	0.36	(04)	14.4	Wisconsin	11.3	0.32	(09)	8.7
Mississippi	10.9	0.47	(21)	4.8	Wyoming	12.3*	1.16	(02)	18.3
Missouri	11.0	0.31	(14)	5.8					

ä 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.

SE Standard error of the rate.

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

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

⊕ Difference between state rate and total U.S. rate is statistically significant ($p < .0002$).

Table XIII-19
ALL LEUKEMIASAVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^ä RATES BY STATE, 1995-99

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	6.0	0.03		
High Five States				
Wisconsin	6.7	0.21	(01)	11.7
West Virginia	6.7	0.34	(02)	11.7
Montana	6.6	0.51	(03)	10.0
Indiana	6.5	0.20	(04)	8.3
Minnesota	6.5	0.22	(05)	8.3
Low Five States				
New Mexico	5.6	0.36	(47)	-6.7
California	5.6 [⊕]	0.08	(48)	-6.7
Arizona	5.5	0.21	(49)	-8.3
Utah	5.5	0.36	(50)	-8.3
Hawaii	4.7 [✱]	0.39	(51)	-21.7

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	6.1	0.22	(20)	1.7	Montana	6.6	0.51	(03)	10.0
Alaska	5.9	0.96	(29)	-1.7	Nebraska	6.4	0.36	(10)	6.7
Arizona	5.5	0.21	(49)	-8.3	Nevada	5.9	0.39	(33)	-1.7
Arkansas	6.3	0.28	(13)	5.0	New Hampshire	5.9	0.44	(32)	-1.7
California	5.6 [⊕]	0.08	(48)	-6.7	New Jersey	6.3	0.16	(12)	5.0
Colorado	5.8	0.25	(35)	-3.3	New Mexico	5.6	0.36	(47)	-6.7
Connecticut	5.7	0.24	(41)	-5.0	New York	5.8	0.10	(39)	-3.3
Delaware	6.0	0.54	(27)	0.0	North Carolina	5.9	0.17	(28)	-1.7
District of Columbia	5.6	0.59	(46)	-6.7	North Dakota	6.0	0.55	(26)	0.0
Florida	5.8	0.11	(34)	-3.3	Ohio	6.4	0.14	(09)	6.7
Georgia	5.9	0.18	(30)	-1.7	Oklahoma	6.3	0.25	(16)	5.0
Hawaii	4.7 [✱]	0.39	(51)	-21.7	Oregon	6.2	0.26	(19)	3.3
Idaho	5.8	0.43	(38)	-3.3	Pennsylvania	6.4	0.13	(08)	6.7
Illinois	6.4	0.14	(06)	6.7	Rhode Island	5.8	0.43	(40)	-3.3
Indiana	6.5	0.20	(04)	8.3	South Carolina	6.1	0.24	(22)	1.7
Iowa	6.3	0.26	(14)	5.0	South Dakota	6.1	0.52	(23)	1.7
Kansas	6.4	0.29	(07)	6.7	Tennessee	6.3	0.20	(15)	5.0
Kentucky	5.7	0.22	(44)	-5.0	Texas	5.9	0.11	(31)	-1.7
Louisiana	6.2	0.23	(17)	3.3	Utah	5.5	0.36	(50)	-8.3
Maine	5.6	0.39	(45)	-6.7	Vermont	5.8	0.60	(36)	-3.3
Maryland	5.7	0.21	(42)	-5.0	Virginia	5.8	0.18	(37)	-3.3
Massachusetts	5.7	0.17	(43)	-5.0	Washington	6.0	0.20	(25)	0.0
Michigan	6.0	0.15	(24)	0.0	West Virginia	6.7	0.34	(02)	11.7
Minnesota	6.5	0.22	(05)	8.3	Wisconsin	6.7	0.21	(01)	11.7
Mississippi	6.1	0.28	(21)	1.7	Wyoming	6.3	0.72	(11)	5.0
Missouri	6.2	0.20	(18)	3.3					

^ä 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.

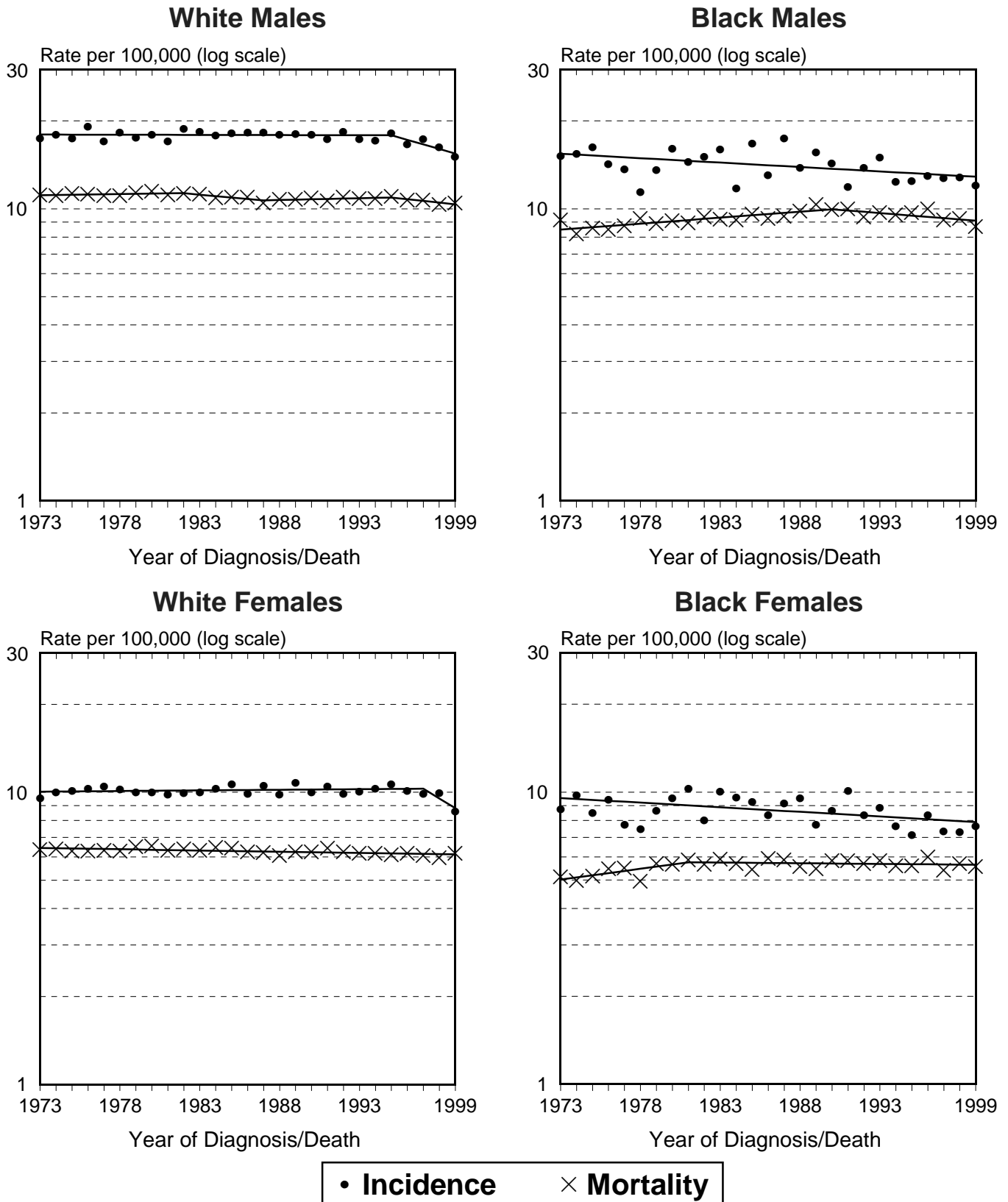
SE Standard error of the rate.

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

[✱] Absolute percent difference between state rate and total U.S. rate is 15% or more.

[⊕] Difference between state rate and total U.S. rate is statistically significant ($p \leq .0002$).

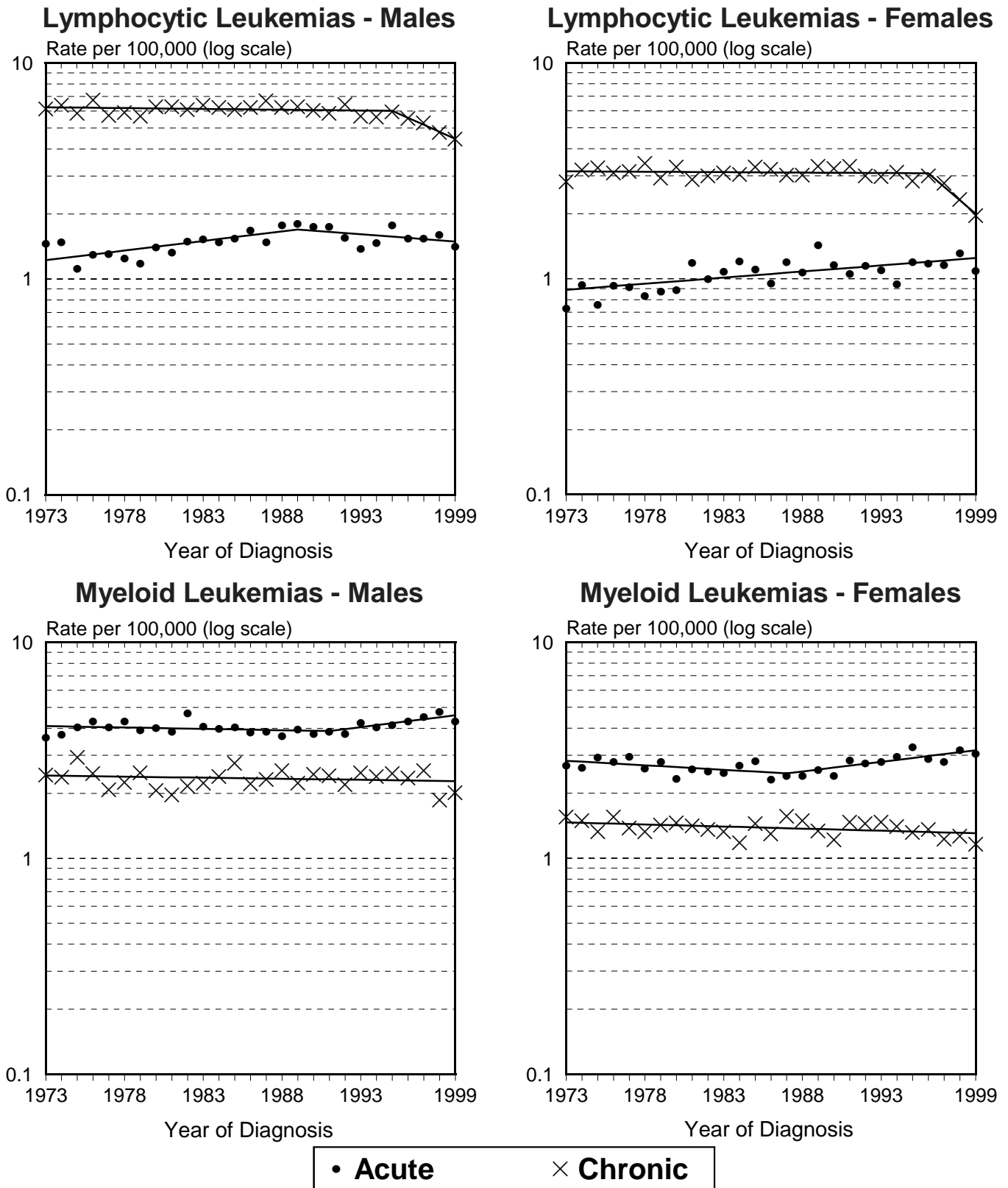
SEER Incidence and U.S. Death Rates⁺ Leukemia



• Incidence × Mortality

⁺ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

SEER Incidence Rates⁺ Lymphocytic and Myeloid Leukemias Acute and Chronic, By Sex



⁺ Source: SEER 9 areas. Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.