

Table XIII-1  
ALL LEUKEMIAS

## TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS (expressed in percents):</u>									
<u>1973-95</u>									
All Ages									
Percent Change (PC)	-5.7	-7.9	-3.5	-4.3	-7.7	-0.8	-23.5	-23.2	-23.6
Est. Annual PC (EAPC)	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.4	-0.5	-0.5
Under 65									
Percent Change (PC)	-2.7	-6.4	2.8	-1.2	-6.9	7.0	-22.2	-14.8	-29.1
Est. Annual PC (EAPC)	0.1	0.0	0.1	0.0	0.0	0.1	-0.4	0.0	-0.9
65 and over									
Percent Change (PC)	-8.6	-9.1	-10.1	-7.3	-8.3	-8.9	-24.6	-29.4	-17.2
Est. Annual PC (EAPC)	-0.4*	-0.4*	-0.4*	-0.3*	-0.4*	-0.3*	-0.4	-0.8	0.0
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-4.1	-4.3	-4.6	-2.2	-2.9	-1.8	-10.7	-13.6	-8.7
Est. Annual PC (EAPC)	-1.1	-1.0	-1.4	-0.6	-0.7	-0.6	-2.7	-4.1	-1.4
<u>1991-95 - ALL AGES</u>									
Percent Change (PC)	-4.8	-6.0	-3.3	-4.4	-6.7	-1.2	-16.6	-11.2	-23.0
Est. Annual PC (EAPC)	-1.5*	-1.7	-1.4	-1.4	-1.9	-0.7	-5.5*	-2.9	-8.3*
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-95</u>									
All Ages									
Percent Change (PC)	-6.0	-4.6	-7.4	-6.4	-5.0	-8.2	4.1	6.5	4.8
Est. Annual PC (EAPC)	-0.3*	-0.3*	-0.3*	-0.3*	-0.3*	-0.4*	0.3*	0.5*	0.2
Under 65									
Percent Change (PC)	-21.5	-20.4	-23.2	-22.5	-21.1	-24.9	-10.5	-9.2	-10.3
Est. Annual PC (EAPC)	-1.1*	-1.1*	-1.2*	-1.2*	-1.2*	-1.2*	-0.5*	-0.3*	-0.7*
65 and over									
Percent Change (PC)	7.8	7.4	8.1	7.8	7.0	8.2	20.7	22.5	23.2
Est. Annual PC (EAPC)	0.3*	0.2*	0.4*	0.3*	0.2*	0.4*	1.1*	1.2*	1.1*
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-0.4	-0.8	0.4	-0.5	-1.1	0.5	1.3	3.9	-0.3
Est. Annual PC (EAPC)	0.0	-0.1	0.3	0.0	-0.2	0.3	0.7	1.0	0.7
<u>1991-95 - ALL AGES</u>									
Percent Change (PC)	-1.3	0.2	-3.3	-1.3	0.4	-3.8	-1.1	0.3	-3.0
Est. Annual PC (EAPC)	-0.4*	0.2	-1.2*♦	-0.4*	0.3	-1.4*♦	-0.4	-0.1	-0.9

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.  
SEER Program.  
NCHS public use tape.  
The EAPC is significantly different from zero ( $p < .05$ ).  
♦ The EAPC for 1991-95 is significantly different from the EAPC for 1975-79 ( $p < .05$ ).  
◆ The EAPC for 1991-95 is significantly different from the EAPC for 1975-79 ( $p < .10$ ).  
◇ Statistic could not be calculated.

Table XIII-2  
ALL LEUKEMIASSEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>§</sup>, 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	10.5	13.7	8.1	10.8	14.3	8.1	9.6	12.0	8.0
1974	10.8	14.2	8.3	11.0	14.6	8.4	10.4	13.1	8.1
1975	10.6	13.7	8.3	10.9	14.2	8.4	9.3	12.5	7.1
1976	11.2	14.9	8.5	11.4	15.4	8.6	9.4	11.6	7.9
1977	10.6	13.3	8.5	11.0	13.9	8.8	8.1	10.7	6.3
1978	10.6	13.9	8.1	11.1	14.7	8.5	7.8	9.8	6.3
1979	10.3	13.5	7.9	10.7	14.1	8.2	8.9	11.0	7.4
1980	10.7	14.2	8.2	11.0	14.6	8.3	10.0	13.1	7.7
1981	10.4	13.4	8.2	10.6	13.8	8.3	10.6	12.7	9.0
1982	10.8	14.7	8.1	11.1	15.1	8.2	9.2	12.3	7.1
1983	10.8	14.4	8.1	11.1	14.9	8.2	10.1	13.0	8.0
1984	10.8	14.0	8.5	11.1	14.5	8.7	9.6	10.8	8.5
1985	11.1	14.4	8.7	11.4	14.8	8.9	9.7	13.0	7.5
1986	10.7	14.4	7.9	11.1	15.0	8.2	8.3	10.6	6.7
1987	10.9	14.2	8.4	11.2	14.7	8.6	10.3	14.1	7.6
1988	10.6	14.0	7.9	10.8	14.5	8.1	9.4	11.6	7.5
1989	11.1	14.4	8.6	11.4	14.8	9.0	9.4	13.0	6.8
1990	10.4	13.8	7.9	10.8	14.4	8.2	9.1	12.1	7.0
1991	10.7	13.5	8.4	11.1	14.2	8.6	9.3	10.0	8.8
1992	10.5	13.8	8.0	10.8	14.5	8.0	9.1	11.7	7.1
1993	10.2	13.1	8.0	10.5	13.6	8.0	9.1	12.1	7.0
1994	10.0	12.8	8.0	10.4	13.3	8.2	7.7	9.8	6.1
1995	10.1	12.9	7.9	10.5	13.4	8.2	7.6	9.4	6.1
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	10.3	13.2	8.0	10.6	13.8	8.2	8.5	10.6	7.0
Under 65	5.8	7.0	4.7	5.9	7.1	4.8	4.8	5.8	4.0
65 and over	51.4	70.4	38.5	53.5	74.2	39.6	42.4	54.4	34.4
All ages (world std.) <sup>§</sup>	8.7	10.9	6.8	8.9	11.3	7.0	7.2	8.8	6.0
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	6.9	7.4	6.4	7.4	7.9	6.8	3.7	4.0	3.5
5-9	3.3	3.6	3.0	3.2	3.4	2.9	3.3	3.2	3.5
10-14	2.4	2.6	2.2	2.5	2.7	2.3	2.0	2.3	1.6
15-19	2.5	2.7	2.4	2.7	2.9	2.4	1.7	1.3	2.0
20-24	2.4	2.6	2.2	2.4	2.7	2.1	1.7	1.4	1.9
25-29	2.4	2.6	2.1	2.2	2.6	1.9	2.4	2.8	2.1
30-34	2.7	3.3	2.2	2.8	3.3	2.3	1.9	2.4	1.5
35-39	3.1	4.2	2.0	3.1	4.1	2.0	3.3	4.3	2.3
40-44	5.1	5.8	4.5	5.1	5.7	4.6	4.5	5.7	3.5
45-49	7.5	9.3	5.8	7.4	9.5	5.3	7.4	7.1	7.7
50-54	11.1	13.8	8.6	11.4	14.0	8.8	8.9	13.1	5.2
55-59	16.6	21.3	12.2	17.1	22.0	12.4	13.8	20.8	8.1
60-64	23.8	30.4	17.8	24.6	31.8	18.0	21.1	24.7	18.2
65-69	34.7	46.1	25.3	36.2	48.4	26.0	34.3	41.4	28.8
70-74	49.5	67.5	35.7	51.5	70.0	37.1	43.2	62.1	30.1
75-79	58.7	83.2	42.0	61.3	88.7	42.7	39.6	50.0	33.0
80-84	71.7	98.3	56.7	74.5	102.9	58.9	53.3	77.1	40.7
85+	85.7	118.6	72.7	88.9	128.1	74.1	67.9	64.1	69.5

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

<sup>§</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

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	0.8	1.2	1.6	0.9	0.3	0.1	0.4
1974	1.4	1.7	1.1	1.4	1.7	1.1	1.1	1.2	1.1
1975	1.0	1.2	0.8	1.1	1.3	0.9	0.4	0.6	0.2
1976	1.2	1.4	1.1	1.2	1.4	1.1	0.9	0.5	1.2
1977	1.2	1.4	1.0	1.3	1.5	1.1	0.7	0.8	0.6
1978	1.2	1.4	1.0	1.3	1.5	1.1	0.6	0.7	0.5
1979	1.2	1.3	1.0	1.2	1.4	1.1	0.4	0.6	0.2
1980	1.2	1.5	1.0	1.3	1.6	1.0	0.8	1.1	0.5
1981	1.4	1.5	1.3	1.5	1.5	1.4	1.0	0.9	1.2
1982	1.4	1.6	1.1	1.4	1.7	1.2	0.7	0.9	0.6
1983	1.4	1.7	1.2	1.5	1.8	1.3	0.9	1.0	0.7
1984	1.5	1.6	1.4	1.5	1.6	1.4	1.1	1.3	1.0
1985	1.5	1.7	1.2	1.5	1.8	1.3	0.6	0.8	0.4
1986	1.5	1.8	1.1	1.5	2.0	1.1	0.8	0.6	0.9
1987	1.5	1.6	1.3	1.5	1.6	1.3	1.0	0.7	1.3
1988	1.5	1.9	1.2	1.6	2.0	1.2	1.0	1.2	0.8
1989	1.8	2.0	1.6	1.9	2.1	1.7	1.2	1.3	1.2
1990	1.5	1.8	1.3	1.6	1.9	1.4	0.7	1.0	0.4
1991	1.6	1.9	1.2	1.7	2.2	1.3	1.0	0.7	1.2
1992	1.5	1.7	1.2	1.5	1.8	1.2	1.1	0.9	1.3
1993	1.4	1.5	1.2	1.5	1.7	1.3	0.8	0.9	0.7
1994	1.3	1.6	1.1	1.4	1.7	1.2	0.8	0.9	0.7
1995	1.6	1.9	1.3	1.7	1.9	1.5	1.0	1.3	0.8
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	1.5	1.7	1.2	1.5	1.8	1.3	0.9	0.9	0.9
Under 65	1.5	1.7	1.2	1.6	1.8	1.3	0.9	0.9	1.0
65 and over	1.4	1.8	1.1	1.5	1.8	1.2	1.0	1.7	0.4
All ages (world std.) <sup>§</sup>	1.6	1.8	1.3	1.7	2.0	1.4	1.0	1.0	1.0
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	5.5	6.1	4.9	6.0	6.6	5.4	2.4	2.6	2.2
5-9	2.7	2.8	2.5	2.6	2.8	2.4	2.1	1.8	2.4
10-14	1.6	1.7	1.5	1.7	1.8	1.5	1.3	1.6	1.1
15-19	1.2	1.6	0.8	1.4	1.9	0.8	0.5	0.2	0.7
20-24	0.9	1.1	0.6	0.9	1.3	0.6	0.4	0.4	0.3
25-29	0.6	0.7	0.4	0.6	0.8	0.4	0.4	0.5	0.3
30-34	0.4	0.5	0.3	0.5	0.6	0.4	0.2	0.2	0.1
35-39	0.3	0.5	0.2	0.3	0.5	0.2	0.2	0.4	0.0
40-44	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.4	0.7
45-49	0.4	0.4	0.3	0.4	0.5	0.3	0.4	0.0	0.8
50-54	0.7	1.1	0.3	0.7	1.1	0.3	0.2	0.0	0.3
55-59	0.7	0.9	0.4	0.6	0.9	0.3	1.7	1.6	1.7
60-64	1.0	1.2	0.8	1.1	1.4	0.8	0.5	0.0	0.9
65-69	1.0	1.4	0.7	1.0	1.4	0.7	1.4	2.6	0.5
70-74	1.3	1.8	1.0	1.5	1.9	1.2	0.4	0.9	0.0
75-79	1.6	2.2	1.3	1.6	2.0	1.3	1.0	2.7	0.0
80-84	1.4	1.6	1.3	1.5	1.9	1.3	0.9	0.0	1.4
85+	2.7	3.0	2.6	2.8	3.2	2.7	1.1	0.0	1.5

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

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	3.4	4.8	2.3	3.5	5.0	2.4	3.9	6.0	2.3
1974	3.5	4.9	2.5	3.7	5.2	2.6	2.6	3.5	1.8
1975	3.5	4.7	2.6	3.6	4.8	2.7	3.6	5.3	2.5
1976	3.6	5.2	2.4	3.7	5.5	2.5	3.2	4.5	2.3
1977	3.3	4.4	2.5	3.5	4.6	2.6	3.0	4.3	2.0
1978	3.4	4.5	2.6	3.6	4.9	2.7	2.6	3.0	2.3
1979	3.2	4.4	2.3	3.4	4.7	2.4	2.4	3.2	1.8
1980	3.6	5.0	2.6	3.7	5.2	2.7	3.7	5.5	2.4
1981	3.3	4.9	2.2	3.5	5.1	2.3	3.3	4.9	2.0
1982	3.4	4.8	2.3	3.5	5.0	2.4	2.9	5.0	1.4
1983	3.5	5.0	2.4	3.6	5.2	2.5	3.3	4.6	2.4
1984	3.5	4.8	2.4	3.7	5.2	2.6	3.0	4.0	2.3
1985	3.4	4.7	2.5	3.7	5.0	2.7	3.0	4.4	2.1
1986	3.5	4.9	2.5	3.8	5.2	2.7	2.1	3.1	1.2
1987	3.5	5.3	2.2	3.7	5.5	2.4	3.3	5.1	1.9
1988	3.3	4.7	2.3	3.5	5.0	2.3	3.4	4.1	2.6
1989	3.5	4.8	2.5	3.7	5.1	2.6	3.0	4.1	2.3
1990	3.3	4.6	2.4	3.5	4.9	2.4	3.2	4.5	2.4
1991	3.3	4.4	2.5	3.5	4.8	2.5	2.8	2.8	2.8
1992	3.2	4.7	2.2	3.5	5.0	2.4	2.5	3.8	1.6
1993	3.0	4.1	2.1	3.1	4.3	2.2	3.0	4.8	1.7
1994	2.9	3.9	2.2	3.1	4.1	2.3	2.1	3.0	1.3
1995	2.7	3.8	1.8	2.8	4.0	1.8	2.1	2.9	1.4
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	3.0	4.2	2.1	3.2	4.4	2.2	2.5	3.5	1.8
Under 65	1.2	1.6	0.8	1.2	1.7	0.8	1.0	1.6	0.5
65 and over	19.7	27.3	14.6	20.8	29.3	15.2	16.4	20.7	13.4
All ages (world std.) <sup>§</sup>	2.3	3.2	1.6	2.4	3.4	1.7	1.9	2.7	1.3
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
25-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-34	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
35-39	0.3	0.4	0.1	0.3	0.4	0.1	0.2	0.4	0.0
40-44	0.7	0.9	0.4	0.7	0.9	0.4	0.8	1.5	0.2
45-49	1.9	2.7	1.1	2.0	3.0	1.0	1.4	1.8	1.0
50-54	3.8	5.3	2.3	3.8	5.2	2.5	3.2	6.1	0.7
55-59	6.3	8.7	3.9	6.6	9.2	4.2	5.0	10.1	0.9
60-64	9.0	11.9	6.5	9.6	12.7	6.8	7.3	8.2	6.5
65-69	14.2	19.6	9.8	15.3	20.8	10.6	12.1	15.5	9.4
70-74	18.5	24.9	13.5	19.1	25.9	13.8	18.5	26.1	13.2
75-79	22.3	30.5	16.8	23.6	33.4	17.0	15.1	16.2	14.4
80-84	26.7	36.7	21.1	28.2	39.3	22.2	21.3	30.8	16.3
85+	32.1	49.7	25.2	34.0	55.7	25.8	24.8	21.4	26.3

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

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	2.5	3.0	2.2	2.6	3.2	2.1	1.8	2.0	1.7
1974	2.4	2.9	2.0	2.4	2.9	2.1	2.1	2.5	1.9
1975	2.6	3.1	2.3	2.7	3.2	2.3	1.9	2.2	1.9
1976	2.7	3.3	2.2	2.7	3.3	2.2	2.0	2.0	1.9
1977	2.6	3.0	2.3	2.7	3.2	2.4	1.3	1.8	1.0
1978	2.5	3.2	2.0	2.6	3.2	2.0	2.0	2.7	1.4
1979	2.5	2.9	2.2	2.5	3.1	2.2	2.5	2.1	2.9
1980	2.3	3.1	1.8	2.3	3.0	1.8	2.0	2.6	1.5
1981	2.3	2.8	2.0	2.4	2.9	2.0	2.0	2.0	2.0
1982	2.5	3.3	2.0	2.5	3.4	2.0	2.2	2.6	1.9
1983	2.3	2.9	1.9	2.3	2.9	1.8	2.2	2.3	2.1
1984	2.5	3.0	2.1	2.5	3.1	2.1	1.9	1.9	1.8
1985	2.5	3.0	2.2	2.4	2.9	2.2	2.6	3.4	2.1
1986	2.2	2.8	1.8	2.1	2.7	1.8	2.4	2.9	2.0
1987	2.2	2.9	1.8	2.3	2.9	1.8	2.0	3.2	1.2
1988	2.2	2.8	1.8	2.2	2.8	1.8	1.9	1.8	1.9
1989	2.5	3.1	2.0	2.6	3.1	2.2	1.9	3.1	1.0
1990	2.3	3.0	1.9	2.4	3.0	1.9	1.8	2.0	1.7
1991	2.6	3.1	2.3	2.7	3.0	2.4	2.6	3.6	2.0
1992	2.5	3.0	2.2	2.6	3.1	2.2	2.5	2.4	2.5
1993	2.7	3.3	2.2	2.7	3.5	2.2	2.0	2.0	2.1
1994	2.7	3.1	2.3	2.7	3.2	2.3	2.3	2.4	2.2
1995	2.8	3.2	2.5	2.9	3.3	2.6	2.0	1.8	2.3
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	2.7	3.1	2.3	2.7	3.2	2.3	2.3	2.4	2.2
Under 65	1.5	1.5	1.4	1.5	1.5	1.4	1.4	1.3	1.5
65 and over	13.7	17.8	10.8	14.2	18.7	11.0	10.1	12.5	8.8
All ages (world std.) <sup>8</sup>	2.2	2.5	2.0	2.2	2.6	2.0	1.9	1.9	1.9
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.7	0.5	0.9	0.7	0.5	0.9	0.5	0.3	0.6
5-9	0.4	0.4	0.3	0.3	0.4	0.2	0.5	0.7	0.3
10-14	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4
15-19	0.8	0.7	0.9	0.7	0.6	0.9	0.9	0.9	0.9
20-24	0.8	0.8	0.9	0.8	0.7	0.9	0.6	0.2	1.0
25-29	0.8	0.7	0.9	0.7	0.7	0.7	0.8	0.5	1.1
30-34	1.0	1.0	0.9	1.0	1.0	0.9	0.6	0.3	0.7
35-39	0.9	1.1	0.8	0.9	1.1	0.7	1.0	1.1	0.9
40-44	1.6	1.5	1.7	1.6	1.5	1.7	1.2	1.1	1.3
45-49	2.3	2.3	2.4	2.2	2.2	2.3	3.2	3.0	3.3
50-54	2.9	2.8	3.0	3.1	3.0	3.2	1.9	1.6	2.1
55-59	4.3	4.9	3.8	4.3	4.9	3.7	3.8	3.7	3.9
60-64	6.6	8.0	5.3	6.7	8.4	5.1	7.5	7.7	7.5
65-69	9.4	11.6	7.6	10.0	12.6	7.9	6.5	5.8	6.9
70-74	13.8	18.5	10.2	14.4	19.4	10.6	11.1	14.4	8.8
75-79	16.5	23.3	11.9	16.9	24.6	11.7	11.5	12.2	11.0
80-84	18.3	23.1	15.6	18.8	23.5	16.3	15.1	25.7	9.5
85+	18.4	21.4	17.2	18.7	21.6	17.7	12.9	17.8	10.8

<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

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	1.5	1.9	1.3	1.6	2.0	1.3	1.8	1.8	1.7
1974	1.5	1.9	1.2	1.5	1.9	1.2	1.5	1.7	1.2
1975	1.6	2.3	1.1	1.6	2.3	1.0	1.6	2.1	1.2
1976	1.6	2.0	1.2	1.5	1.9	1.2	1.7	2.4	1.1
1977	1.3	1.6	1.1	1.3	1.7	1.1	1.5	1.6	1.4
1978	1.4	1.8	1.1	1.4	1.8	1.1	1.4	1.9	1.0
1979	1.5	2.0	1.1	1.5	2.0	1.1	1.7	2.4	1.1
1980	1.4	1.7	1.2	1.4	1.7	1.2	1.2	1.4	1.0
1981	1.3	1.6	1.1	1.3	1.5	1.1	2.1	2.7	1.6
1982	1.3	1.7	1.1	1.3	1.7	1.1	1.6	1.6	1.6
1983	1.4	1.8	1.1	1.3	1.7	1.0	2.0	2.8	1.5
1984	1.3	1.9	0.9	1.3	1.8	0.8	2.1	2.1	2.1
1985	1.6	2.2	1.2	1.6	2.2	1.2	1.8	2.5	1.2
1986	1.4	1.8	1.0	1.4	1.8	1.0	1.3	1.4	1.3
1987	1.5	1.8	1.2	1.5	1.8	1.2	1.6	2.1	1.3
1988	1.5	2.0	1.2	1.5	2.0	1.2	1.6	2.2	1.1
1989	1.3	1.7	1.1	1.3	1.7	1.1	1.7	2.3	1.2
1990	1.4	1.9	1.0	1.3	1.9	0.9	2.1	2.9	1.6
1991	1.5	1.9	1.2	1.5	1.9	1.1	1.3	1.1	1.4
1992	1.4	1.7	1.2	1.4	1.8	1.2	1.2	1.5	1.0
1993	1.5	1.9	1.1	1.4	1.8	1.2	1.8	2.9	1.1
1994	1.4	1.8	1.1	1.4	1.8	1.1	1.3	2.0	0.8
1995	1.3	1.8	0.9	1.3	1.8	0.9	1.2	1.6	0.9
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	1.4	1.8	1.1	1.4	1.8	1.1	1.4	1.8	1.0
Under 65	0.8	1.0	0.6	0.8	0.9	0.6	0.8	1.1	0.6
65 and over	7.0	9.7	5.2	7.2	10.1	5.3	6.2	7.9	5.1
All ages (world std.) <sup>8</sup>	1.2	1.5	0.9	1.2	1.5	0.9	1.2	1.6	0.9
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.1	0.2	0.0	0.1	0.1	0.0	0.2	0.2	0.2
5-9	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.3
10-14	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.0
15-19	0.2	0.1	0.3	0.2	0.1	0.3	0.2	0.2	0.2
20-24	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.2
25-29	0.5	0.6	0.3	0.4	0.6	0.2	0.6	1.1	0.2
30-34	0.8	0.9	0.6	0.8	0.9	0.6	0.6	1.0	0.3
35-39	0.9	1.3	0.6	0.9	1.2	0.5	1.5	2.2	0.9
40-44	1.2	1.5	0.9	1.2	1.3	1.0	1.5	2.3	0.7
45-49	1.4	1.7	1.0	1.3	1.6	0.9	1.2	1.5	1.0
50-54	2.0	2.3	1.7	2.0	2.4	1.6	2.5	2.9	2.1
55-59	2.3	2.9	1.9	2.4	2.9	1.9	2.4	3.7	1.3
60-64	3.4	4.1	2.8	3.5	4.1	3.0	2.3	2.9	1.9
65-69	4.6	6.3	3.2	4.5	6.3	3.0	6.7	7.8	6.0
70-74	6.4	8.3	4.9	6.7	8.5	5.3	5.5	8.1	3.8
75-79	7.9	11.7	5.3	8.5	12.8	5.6	3.6	6.8	1.7
80-84	10.4	15.2	7.7	10.6	15.6	7.9	7.1	10.3	5.4
85+	12.6	17.3	10.8	13.0	18.9	10.7	11.9	7.1	13.9

<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
<sup>8</sup> SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XIII-7  
ALL LEUKEMIAS

## U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\*, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1973	6.7	8.8	5.2	6.9	9.0	5.3	5.8	7.7	4.4
1974	6.7	8.7	5.2	6.8	8.9	5.3	5.5	7.0	4.3
1975	6.6	8.8	5.1	6.8	9.0	5.2	5.5	7.1	4.4
1976	6.6	8.8	5.1	6.8	9.0	5.1	5.7	7.2	4.6
1977	6.6	8.7	5.1	6.7	8.9	5.2	5.7	7.1	4.7
1978	6.5	8.6	5.0	6.6	8.8	5.1	5.6	7.6	4.2
1979	6.7	8.8	5.2	6.8	9.0	5.3	5.8	7.3	4.7
1980	6.8	8.9	5.2	6.9	9.2	5.3	5.9	7.5	4.7
1981	6.5	8.7	5.0	6.7	8.9	5.1	5.9	7.3	4.8
1982	6.6	8.7	5.1	6.7	8.9	5.1	6.0	7.7	4.8
1983	6.5	8.6	5.0	6.6	8.8	5.1	5.9	7.5	4.8
1984	6.5	8.5	5.1	6.6	8.6	5.2	5.9	7.5	4.7
1985	6.5	8.5	5.1	6.6	8.6	5.2	5.8	7.8	4.5
1986	6.4	8.5	4.9	6.5	8.6	5.0	5.9	7.6	4.8
1987	6.2	8.1	4.9	6.3	8.3	4.9	5.9	7.6	4.8
1988	6.2	8.3	4.8	6.3	8.5	4.8	5.8	7.8	4.5
1989	6.4	8.4	4.9	6.5	8.5	5.0	6.0	8.3	4.5
1990	6.4	8.4	4.9	6.5	8.6	5.0	6.1	8.1	4.8
1991	6.4	8.3	5.0	6.5	8.4	5.1	6.0	8.0	4.7
1992	6.4	8.4	4.9	6.5	8.6	5.0	5.8	7.6	4.6
1993	6.3	8.4	4.9	6.4	8.5	4.9	6.0	8.0	4.7
1994	6.3	8.3	4.8	6.4	8.5	4.9	5.8	7.8	4.5
1995	6.3	8.4	4.8	6.4	8.6	4.8	5.9	7.9	4.6
<u>AGE-ADJUSTED RATES, 1991-95</u>									
<u>AGE AT DEATH:</u>									
All ages	6.3	8.4	4.9	6.4	8.5	4.9	5.9	7.8	4.6
Under 65	2.8	3.4	2.3	2.8	3.4	2.3	3.0	3.8	2.4
65 and over	38.4	53.7	28.6	39.4	55.1	29.2	32.3	44.8	24.7
All ages (world std.) <sup>N</sup>	4.9	6.4	3.8	5.0	6.5	3.9	4.8	6.2	3.7
<u>AGE-SPECIFIC RATES, 1991-95</u>									
<u>AGE AT DEATH:</u>									
0-4	1.0	1.1	0.9	1.0	1.1	0.9	0.9	0.9	0.9
5-9	1.1	1.3	0.9	1.1	1.3	1.0	0.9	1.0	0.8
10-14	1.1	1.3	0.9	1.1	1.3	0.9	1.0	1.1	0.9
15-19	1.3	1.6	1.0	1.3	1.6	1.0	1.3	1.7	1.0
20-24	1.3	1.6	1.0	1.3	1.6	1.0	1.4	1.5	1.2
25-29	1.4	1.7	1.1	1.4	1.7	1.1	1.7	2.0	1.3
30-34	1.5	1.8	1.2	1.5	1.8	1.2	1.7	2.3	1.2
35-39	1.8	2.0	1.6	1.7	1.9	1.6	2.1	2.4	1.8
40-44	2.5	2.9	2.1	2.5	2.9	2.1	2.9	3.5	2.3
45-49	3.7	4.2	3.2	3.7	4.1	3.2	4.4	4.9	3.9
50-54	5.6	6.6	4.6	5.6	6.6	4.6	6.4	8.2	5.0
55-59	8.9	11.0	7.0	9.0	11.0	7.1	10.1	13.7	7.2
60-64	14.7	19.1	10.8	14.9	19.3	10.9	15.3	20.0	11.8
65-69	21.8	29.7	15.4	22.4	30.4	15.8	20.2	28.0	14.4
70-74	32.9	45.2	23.5	33.6	46.2	24.0	28.9	39.6	21.7
75-79	46.0	64.5	33.5	47.2	65.9	34.5	37.6	56.4	26.4
80-84	61.1	87.0	46.8	62.5	89.7	47.6	49.8	66.0	41.5
85+	81.7	117.5	67.8	84.1	122.3	69.5	61.2	79.3	53.8

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

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

Table XIII-8  
ALL LEUKEMIAS

## 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 <sup>a</sup>	-	-	-	14	-	-	-	-	-
1970-73 <sup>a</sup>	-	-	-	22	-	-	-	-	-
1974-76 <sup>b</sup>	34.3	33.2	35.6	35.0	33.8	36.5	31.4	32.5	30.3
1977-79 <sup>b</sup>	36.9	36.2	37.8	37.8	37.0	38.7	30.4	29.7	31.2
1980-82 <sup>b</sup>	38.3	38.1	38.6	39.2	39.3	39.2	33.2	30.2	36.7
1983-85 <sup>b</sup>	40.6	40.1	41.2	41.8	41.6	42.2	33.4	32.3	34.7
1986-88 <sup>b</sup>	42.7	44.0	41.0	43.8	45.3	41.8	36.5	35.3	37.9
1989-94 <sup>b</sup>	42.8 <sup>S</sup>	43.4 <sup>S</sup>	42.1 <sup>S</sup>	44.4 <sup>S</sup>	45.3 <sup>S</sup>	43.2 <sup>S</sup>	31.3	27.5	35.4
<u>5-YR RELATIVE SURVIVAL RATES, 1989-94<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	55.4	54.8	56.2	57.8	57.9	57.6	39.7	34.2	46.6 <sup>†</sup>
45-54	47.3	48.7	45.0	49.5	51.0	47.0	34.3 <sup>†</sup>	33.1 <sup>†</sup>	34.4 <sup>†</sup>
55-64	43.9	43.9	43.7	46.2	46.4	45.8	29.3	21.7 <sup>†</sup>	36.1 <sup>†</sup>
65-74	38.8	38.7	39.1	40.6	40.4	40.9	25.5	24.3 <sup>†</sup>	28.5 <sup>†</sup>
75+	29.1	28.4	29.7	30.3	29.9	30.6	21.0	14.3 <sup>†</sup>	24.7 <sup>†</sup>
Under 65	50.3	50.1	50.7	52.5	52.6	52.2	36.1	30.9	41.7
65 and over	34.4	34.6	34.2	35.9	36.2	35.5	23.5	21.3	25.9

<sup>a</sup><sup>b</sup>

Rates are based on End Results data from a series of hospital registries and one population-based registry. 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 1995.

<sup>S</sup>

The difference in rates between 1974-76 and 1989-94 is statistically significant ( $p < .05$ ).

<sup>†</sup>

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

<sup>††</sup>

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

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Statistic could not be calculated.



Table XIII-9  
LYMPHOCYTIC LEUKEMIAS

## 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 <sup>b</sup>	38.2	34.5	43.5	38.7	34.3	44.8	27.7 <sup>†</sup>	-	-
1977-79 <sup>b</sup>	50.5	47.1	55.4	51.8	49.2	55.5	40.9 <sup>†</sup>	-	-
1980-82 <sup>b</sup>	52.4	49.1	56.8	53.4	49.7	58.4	39.4 <sup>†</sup>	34.1 <sup>†</sup>	44.5 <sup>†</sup>
1983-85 <sup>b</sup>	51.4	48.5	55.1	52.6	50.1	56.0	35.2 <sup>†</sup>	37.8 <sup>†</sup>	-
1986-88 <sup>b</sup>	55.1	53.6	57.2	55.8	53.9	58.7	46.4 <sup>†</sup>	43.0 <sup>†</sup>	48.8 <sup>†</sup>
1989-94 <sup>b</sup>	57.9 <sup>S</sup>	56.5 <sup>S</sup>	59.8 <sup>S</sup>	58.4 <sup>S</sup>	57.5 <sup>S</sup>	59.6 <sup>S</sup>	48.9 <sup>S†</sup>	49.4 <sup>†</sup>	48.2 <sup>†</sup>
ACUTE LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1989-94 <sup>b</sup>									
AGE AT DIAGNOSIS:									
<45	68.0	66.0	70.8	69.4	67.5	72.2	53.2 <sup>†</sup>	53.6 <sup>†</sup>	52.4 <sup>†</sup>
45-54	16.2	11.5 <sup>†</sup>	23.9 <sup>†</sup>	13.7	11.3 <sup>†</sup>	18.0 <sup>†</sup>	-	-	-
55-64	17.9	24.0 <sup>†</sup>	9.5 <sup>†</sup>	18.9 <sup>†</sup>	28.2 <sup>†</sup>	7.8 <sup>†</sup>	-	-	-
65-74	7.7	10.5 <sup>†</sup>	6.8 <sup>†</sup>	7.7	9.8 <sup>†</sup>	7.4 <sup>†</sup>	-	-	-
75+	1.7	0.0	2.4	1.8	0.0	2.6	-	-	-
Under 65	62.5	60.4	65.3	63.4	61.6	65.8	50.6 <sup>†</sup>	51.3 <sup>†</sup>	49.7 <sup>†</sup>
65 and over	4.7	6.7	4.4	4.9	6.7	4.8	-	-	-
CHRONIC LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1974-76 <sup>b</sup>	67.9	65.5	71.2	68.2	65.5	71.8	63.6 <sup>†</sup>	64.3 <sup>†</sup>	62.7 <sup>†</sup>
1977-79 <sup>b</sup>	69.6	68.1	71.5	70.8	69.0	73.1	51.6 <sup>†</sup>	54.9 <sup>†</sup>	47.6 <sup>†</sup>
1980-82 <sup>b</sup>	68.1	67.6	68.9	69.0	69.1	68.8	57.5 <sup>†</sup>	50.8 <sup>†</sup>	69.3 <sup>†</sup>
1983-85 <sup>b</sup>	73.7	72.3	75.5	74.0	72.6	76.0	68.1 <sup>†</sup>	66.3 <sup>†</sup>	66.9 <sup>†</sup>
1986-88 <sup>b</sup>	73.2	72.3	74.4	74.1	73.5	75.0	63.4 <sup>†</sup>	59.7 <sup>†</sup>	68.7 <sup>†</sup>
1989-94 <sup>b</sup>	70.6 <sup>S</sup>	70.5 <sup>S</sup>	70.7	72.4 <sup>S</sup>	72.5 <sup>S</sup>	72.2	48.4	42.7 <sup>†</sup>	55.4 <sup>†</sup>
CHRONIC LYMPHOCYTIC LEUKEMIA									
5-YR RELATIVE SURVIVAL RATES, 1989-94 <sup>b</sup>									
AGE AT DIAGNOSIS:									
<45	76.9 <sup>†</sup>	74.3 <sup>†</sup>	81.6 <sup>†</sup>	81.9	82.7 <sup>†</sup>	80.7 <sup>†</sup>	-	-	-
45-54	77.3	77.6	76.6 <sup>†</sup>	79.2	79.9	77.4 <sup>†</sup>	53.8 <sup>†</sup>	-	-
55-64	76.3	74.6	79.6	78.9	77.0	83.1	50.2 <sup>†</sup>	36.9 <sup>†</sup>	63.3 <sup>†</sup>
65-74	73.4	73.6	73.1	74.6	75.1	74.1	54.0 <sup>†</sup>	50.3 <sup>†</sup>	60.1 <sup>†</sup>
75+	60.0	57.4	62.1	61.2	58.3	63.6	39.3 <sup>†</sup>	33.1 <sup>†</sup>	42.9 <sup>†</sup>
Under 65	76.5	75.1	79.1	79.2	78.1	81.4	49.9 <sup>†</sup>	40.1 <sup>†</sup>	65.1 <sup>†</sup>
65 and over	67.4	67.4	67.5	68.7	68.6	68.9	47.2 <sup>†</sup>	44.8 <sup>†</sup>	49.6 <sup>†</sup>

<sup>b</sup> 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 1995.

**S** The difference in rates between 1974-76 and 1989-94 is statistically significant ( $p < .05$ ).

<sup>†</sup> 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 LEUKEMIAS

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>ACUTE MYELOID LEUKEMIA</b>									
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1974-76 <sup>b</sup>	5.7	5.1	6.2	5.8	5.5	6.1	6.8	3.0	9.7
1977-79 <sup>b</sup>	8.0	7.0	9.1	7.2	6.1	8.5	16.8	18.0 <sup>†</sup>	15.7 <sup>†</sup>
1980-82 <sup>b</sup>	7.6	6.8	8.4	7.1	5.9	8.7	9.1	11.2	6.6
1983-85 <sup>b</sup>	10.6	10.0	11.3	10.5	10.3	10.7	10.1	9.8	10.3
1986-88 <sup>b</sup>	11.2	8.7	14.1	11.4	9.1	14.1	9.2	4.2	13.4 <sup>†</sup>
1989-94 <sup>b</sup>	14.2 <sup>S</sup>	13.3 <sup>S</sup>	15.2 <sup>S</sup>	14.0 <sup>S</sup>	13.3 <sup>S</sup>	14.9 <sup>S</sup>	11.8	9.5	13.6
<b>ACUTE MYELOID LEUKEMIA</b>									
<b>5-YR RELATIVE SURVIVAL RATES, 1989-94<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	35.5	36.7	34.4	36.4	38.2	34.5	30.1 <sup>†</sup>	31.5 <sup>†</sup>	29.0 <sup>†</sup>
45-54	23.8	20.2	28.0	25.0	21.4	29.2	8.9 <sup>†</sup>	-	-
55-64	10.3	8.9	12.0	11.0	9.1	13.7	0.0	-	-
65-74	3.8	2.4	5.9	3.7	2.5	5.5	2.6	3.8	-
75+	1.3	0.8	1.5	0.9	0.0	1.3	3.5	-	5.8 <sup>†</sup>
Under 65	25.1	23.9	26.5	25.6	24.3	27.1	19.0	18.6 <sup>†</sup>	19.1 <sup>†</sup>
65 and over	2.7	1.9	3.6	2.5	1.7	3.3	3.0	2.6	3.8
<b>CHRONIC MYELOID LEUKEMIA</b>									
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1974-76 <sup>b</sup>	22.4	19.5	26.2	22.0	18.3	26.9	24.9 <sup>†</sup>	28.2 <sup>†</sup>	20.2 <sup>†</sup>
1977-79 <sup>b</sup>	23.4	22.2	24.9	23.1	22.3	24.0	25.4 <sup>†</sup>	18.4 <sup>†</sup>	33.8 <sup>†</sup>
1980-82 <sup>b</sup>	30.7	27.9	33.7	32.0	30.3	33.9	27.1 <sup>†</sup>	18.7 <sup>†</sup>	36.8 <sup>†</sup>
1983-85 <sup>b</sup>	24.9	22.4	28.2	25.5	22.7	29.1	23.3	20.7 <sup>†</sup>	26.2 <sup>†</sup>
1986-88 <sup>b</sup>	28.3	29.8	26.3	28.0	29.8	25.7	35.6 <sup>†</sup>	31.7 <sup>†</sup>	40.6 <sup>†</sup>
1989-94 <sup>b</sup>	32.0 <sup>S</sup>	29.7 <sup>S</sup>	34.8	32.4 <sup>S</sup>	31.5 <sup>S</sup>	33.6	28.2	16.4 <sup>†</sup>	44.0 <sup>†</sup>
<b>CHRONIC MYELOID LEUKEMIA</b>									
<b>5-YR RELATIVE SURVIVAL RATES, 1989-94<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	42.6	39.7	46.8	44.8	44.6	45.7 <sup>†</sup>	28.5 <sup>†</sup>	12.6 <sup>†</sup>	-
45-54	45.7	42.3 <sup>†</sup>	50.3 <sup>†</sup>	45.6	42.0 <sup>†</sup>	50.9 <sup>†</sup>	50.9 <sup>†</sup>	-	-
55-64	29.9	25.5 <sup>†</sup>	36.7 <sup>†</sup>	30.6	26.3 <sup>†</sup>	37.0 <sup>†</sup>	30.2 <sup>†</sup>	-	-
65-74	25.8	21.8	30.8	27.9	24.0	32.6	11.0 <sup>†</sup>	8.7 <sup>†</sup>	-
75+	19.4	17.7	20.8	19.6	19.8	19.4	21.0 <sup>†</sup>	-	-
Under 65	40.0	36.6	45.3	41.0	38.9	44.6	34.2 <sup>†</sup>	21.3 <sup>†</sup>	50.4 <sup>†</sup>
65 and over	22.7	20.0	25.4	23.8	22.1	25.4	15.2 <sup>†</sup>	6.4 <sup>†</sup>	29.2 <sup>†</sup>

<sup>b</sup> 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 1995.

**S** The difference in rates between 1974-76 and 1989-94 is statistically significant ( $p < .05$ ).

<sup>†</sup> 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  
ALL LEUKEMIASINCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																				
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	10.6	11.2	10.6	10.6	10.3	10.7	10.4	10.8	10.8	10.8	11.1	10.7	10.9	10.6	11.1	10.4	10.7	10.5	10.2	10.0	10.1
Mortality																					
U.S.	6.6	6.6	6.6	6.5	6.7	6.8	6.5	6.6	6.5	6.5	6.5	6.4	6.2	6.2	6.4	6.4	6.4	6.4	6.3	6.3	6.3
SEER	6.7	6.8	6.5	6.5	6.5	6.6	6.2	6.6	6.5	6.4	6.5	6.1	6.4	6.2	6.2	6.1	6.4	6.2	6.3	6.2	6.2
Relative Survival Rates (SEER)																					
1-year	61.1	59.9	61.5	62.2	61.4	65.2	64.3	61.8	62.2	63.8	64.6	65.1	63.6	66.4	64.6	66.0	65.4	66.0	64.7	63.0	
2-year	49.8	49.3	51.5	52.2	50.2	54.6	53.9	51.5	52.9	53.1	55.5	55.3	53.2	56.5	55.7	55.2	55.5	56.4	54.6		
3-year	43.1	43.0	45.5	45.8	44.3	48.8	47.6	45.8	47.7	47.4	49.3	49.5	47.8	50.8	50.8	50.1	49.8	51.0			
4-year	37.9	38.7	41.1	41.8	38.7	43.4	41.9	42.5	43.6	42.3	45.7	45.6	44.3	47.3	46.1	46.6	45.3				
5-year	33.9	33.4	37.9	38.3	34.4	38.1	38.1	38.7	39.9	39.4	42.4	42.3	41.2	44.5	43.5	44.0					
6-year	30.5	30.6	34.8	34.8	31.7	36.2	34.9	36.0	38.3	36.5	40.1	40.1	39.3	42.0	40.7						
7-year	28.9	28.5	33.0	32.1	29.7	34.1	32.2	33.6	36.0	34.2	38.0	38.0	36.4	38.9							
8-year	26.9	26.1	31.4	30.2	27.3	32.1	30.1	31.5	34.6	31.8	35.9	35.8	34.0								
9-year	24.6	23.9	30.0	29.1	25.7	30.4	28.3	30.4	32.4	30.2	33.3	34.1									
10-year	22.9	22.5	29.1	27.8	24.6	28.6	27.1	29.7	30.8	28.4	32.3										
11-year	21.6	21.5	27.9	26.7	22.9	27.3	25.9	29.1	29.7	27.0											
12-year	20.6	21.0	26.7	25.1	22.0	26.7	25.6	27.3	28.3												
13-year	20.3	19.6	26.3	24.4	21.4	25.8	24.8	26.5													
14-year	20.2	18.7	25.6	24.0	20.7	25.4	24.4														
15-year	19.7	18.5	25.0	22.9	20.4	24.3															
16-year	18.7	17.5	24.4	22.2	20.2																
17-year	18.2	17.3	23.8	21.6																	
18-year	17.5	16.4	23.8																		
19-year	17.3	16.3																			
20-year	16.1																				

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 XIII-12  
ALL LEUKEMIASINCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	13.7	14.9	13.3	13.9	13.5	14.2	13.4	14.7	14.4	14.0	14.4	14.4	14.2	14.0	14.4	13.8	13.5	13.8	13.1	12.8	12.9
Mortality																					
U.S.	8.8	8.8	8.7	8.6	8.8	8.9	8.7	8.7	8.6	8.5	8.5	8.5	8.1	8.3	8.4	8.4	8.3	8.4	8.4	8.3	8.4
SEER	9.0	9.2	8.7	8.5	8.7	9.0	8.3	8.9	8.8	8.4	8.6	8.5	8.2	8.2	8.1	8.2	8.2	8.4	8.3	8.0	7.9
Relative Survival Rates (SEER)																					
1-year	61.3	59.2	61.4	60.9	62.8	65.1	63.7	62.4	62.9	64.5	65.3	65.1	65.2	67.4	64.8	66.9	66.6	66.6	66.3	65.0	
2-year	50.1	48.1	51.6	50.4	50.8	54.7	53.2	51.6	53.2	53.4	55.5	55.4	55.8	57.4	56.8	55.6	56.8	57.0	56.8		
3-year	43.1	42.1	45.8	42.9	44.0	48.3	46.9	45.8	47.5	47.0	48.6	49.1	50.1	51.6	51.6	50.0	50.7	51.1			
4-year	37.7	37.3	41.4	39.3	38.5	42.9	41.4	42.3	43.1	41.5	44.9	45.4	47.1	48.1	47.0	46.4	45.1				
5-year	33.4	31.3	38.0	35.7	34.9	37.8	37.9	38.6	39.7	38.1	42.4	42.2	43.7	45.8	44.7	42.8					
6-year	29.7	28.9	34.2	32.8	32.4	35.9	34.2	35.9	38.2	34.9	40.0	40.3	40.9	43.4	41.8						
7-year	27.8	26.7	32.8	29.4	30.0	33.3	31.7	33.8	36.3	32.3	37.6	37.7	37.8	40.4							
8-year	25.3	24.2	31.3	27.5	26.8	31.2	29.0	31.4	35.6	29.0	35.4	35.4	36.2								
9-year	22.7	21.8	29.0	27.0	25.1	29.6	27.0	30.4	33.6	26.6	32.8	33.2									
10-year	21.2	20.1	28.4	25.2	23.9	27.7	25.4	29.9	32.7	25.5	31.7										
11-year	19.8	18.7	27.0	24.1	22.6	26.4	23.8	29.1	31.8	24.5											
12-year	18.8	18.4	25.9	22.3	21.6	26.4	23.6	28.1	31.3												
13-year	18.8	17.3	25.9	21.6	21.2	25.4	22.8	28.0													
14-year	18.4	16.2	25.1	21.1	20.8	25.1	22.4														
15-year	17.8	16.2	24.7	20.1	20.7	24.4															
16-year	17.0	15.8	24.3	19.0	20.1																
17-year	16.6	15.8	23.3	18.7																	
18-year	15.3	14.9	22.3																		
19-year	15.3	14.7																			
20-year	13.9																				

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 XIII-13  
ALL LEUKEMIASINCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Incidence																					
SEER	8.3	8.5	8.5	8.1	7.9	8.2	8.2	8.1	8.1	8.5	8.7	7.9	8.4	7.9	8.6	7.9	8.4	8.0	8.0	8.0	7.9
Mortality																					
U.S.	5.1	5.1	5.1	5.0	5.2	5.2	5.0	5.1	5.0	5.1	5.1	4.9	4.9	4.8	4.9	4.9	5.0	4.9	4.9	4.8	4.8
SEER	5.1	5.0	4.9	5.1	5.0	4.9	4.8	5.1	4.9	4.9	5.0	4.4	5.1	4.8	4.9	4.6	4.9	4.6	4.8	4.8	5.0
Relative Survival Rates (SEER)																					
1-year	60.9	60.9	61.6	63.9	59.6	65.2	65.1	60.9	61.4	63.0	63.7	65.0	61.4	64.9	64.4	64.8	63.7	65.0	62.6	60.5	
2-year	49.4	50.9	51.4	54.6	49.4	54.4	54.9	51.5	52.5	52.7	55.4	55.2	49.8	55.3	54.4	54.5	53.9	55.7	51.8		
3-year	43.1	44.3	45.2	49.5	44.6	49.3	48.6	45.9	48.0	47.9	50.1	50.1	44.9	49.7	49.8	50.2	48.7	50.9			
4-year	38.1	40.4	40.8	45.1	39.0	44.1	42.5	42.7	44.3	43.3	46.6	45.9	40.6	46.1	45.1	46.8	45.4				
5-year	34.4	36.0	37.9	41.6	33.7	38.5	38.5	38.9	40.1	41.0	42.5	42.5	38.0	42.6	42.0	45.6					
6-year	31.4	32.7	35.4	37.3	30.8	36.5	35.8	36.2	38.6	38.6	40.1	39.7	37.3	40.3	39.2						
7-year	30.1	30.7	33.1	35.6	29.3	35.2	32.8	33.2	35.6	36.5	38.5	38.3	34.6	36.9							
8-year	28.7	28.4	31.6	33.5	27.9	33.2	31.4	31.8	33.2	35.1	36.6	36.3	31.3								
9-year	26.8	26.6	31.2	31.9	26.5	31.5	30.0	30.4	30.8	34.5	33.9	35.4									
10-year	24.9	25.5	29.8	31.1	25.4	29.7	29.3	29.5	28.2	32.0	33.1										
11-year	23.6	24.8	29.0	30.1	23.4	28.3	28.5	29.1	27.1	29.9											
12-year	22.5	24.0	27.7	28.6	22.5	26.9	27.9	26.4	24.5												
13-year	22.1	22.2	26.8	28.1	21.7	26.3	27.1	24.7													
14-year	22.1	21.5	26.1	27.7	20.7	25.7	26.9														
15-year	21.7	20.7	25.4	26.4	20.1	24.2															
16-year	20.5	19.4	24.5	26.2	20.1																
17-year	20.0	18.9	24.4	25.3																	
18-year	19.9	18.1	24.4																		
19-year	19.5	18.0																			
20-year	18.4																				

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 XIII-14  
ALL LEUKEMIAS

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,  
 Given Cancer Free At Current Age By Race and Sex

Lifetime Risk (Percent) of Being Diagnosed With Cancer and  
 Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1993-95

All Races									
Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.05	0.08	0.10	1.37	0.05	0.07	0.09	1.06	
10	0.03	0.05	0.09	1.33	0.02	0.04	0.06	1.02	
20	0.03	0.06	0.13	1.31	0.02	0.04	0.09	1.00	
30	0.04	0.11	0.26	1.31	0.02	0.07	0.17	0.98	
40	0.07	0.22	0.52	1.31	0.05	0.15	0.34	0.97	
50	0.16	0.47	0.92	1.29	0.10	0.29	0.57	0.94	
60	0.34	0.83	1.15	1.23	0.20	0.49	0.79	0.88	
Lifetime Risk of Being Diagnosed =				1.37%	Lifetime Risk of Being Diagnosed =				1.06%
Lifetime Risk of Dying =				0.94%	Lifetime Risk of Dying =				0.76%

Whites									
Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.05	0.08	0.10	1.45	0.05	0.07	0.09	1.09	
10	0.03	0.05	0.09	1.41	0.02	0.04	0.07	1.05	
20	0.03	0.06	0.14	1.40	0.02	0.04	0.09	1.03	
30	0.04	0.11	0.26	1.39	0.02	0.07	0.17	1.02	
40	0.08	0.23	0.55	1.38	0.05	0.15	0.34	1.00	
50	0.16	0.49	0.97	1.36	0.11	0.30	0.59	0.97	
60	0.36	0.88	1.21	1.29	0.20	0.51	0.80	0.90	
Lifetime Risk of Being Diagnosed =				1.45%	Lifetime Risk of Being Diagnosed =				1.09%
Lifetime Risk of Dying =				1.00%	Lifetime Risk of Dying =				0.79%

Blacks									
Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.03	0.05	0.07	0.78	0.03	0.05	0.07	0.72	
10	0.02	0.04	0.07	0.76	0.02	0.04	0.06	0.70	
20	0.02	0.05	0.10	0.76	0.02	0.04	0.08	0.68	
30	0.03	0.09	0.22	0.77	0.02	0.07	0.11	0.67	
40	0.06	0.20	0.41	0.78	0.05	0.09	0.25	0.67	
50	0.15	0.39	0.64	0.80	0.05	0.22	0.40	0.65	
60	0.29	0.58	0.76	0.78	0.19	0.39	0.64	0.66	
Lifetime Risk of Being Diagnosed =				0.78%	Lifetime Risk of Being Diagnosed =				0.72%
Lifetime Risk of Dying =				0.61%	Lifetime Risk of Dying =				0.60%

Table XIII-15  
ALL LEUKEMIAS (Invasive)

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

By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1990-1995 Rate per 100,000 persons			Trend 1990-1995 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	10.3	13.3	8.0	-1.4★	-1.8★
White	10.7	13.9	8.3	-1.2★	-1.6	-0.9
White Hispanic	8.5	10.1	7.1	-0.7	-0.2	-1.3
White Non-Hispanic	10.8	14.1	8.2	-1.2	-1.6	-0.7
Black	8.6	10.7	6.9	-4.1★	-5.3	-3.0
Asian/Pacific Islander <sup>‡</sup>	6.8	8.1	5.8	-0.1	-0.6	0.7
American Indian	-	-	-	-	-	-
Hispanic <sup>⊙</sup>	8.0	9.5	6.7	-0.7	-0.2	-1.3

Mortality<sup>❖</sup>

RACE/ETHNICITY	Rate 1990-1995 Rate per 100,000 persons			Trend 1990-1995 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	6.3	8.4	4.9	-0.3★	0.0
White	6.4	8.5	4.9	-0.3★	0.1	-0.9
White Hispanic	4.5	5.5	3.8	-1.6	-1.3	-2.1
White Non-Hispanic	6.5	8.6	4.9	-0.2	0.2	-0.8
Black	6.0	7.9	4.6	-0.6	-0.4	-0.9★
Asian/Pacific Islander <sup>‡</sup>	3.7	4.6	2.9	2.4	0.0	5.9
American Indian	3.3	3.9	2.9	1.8	0.5	3.7
Hispanic <sup>⊙</sup>	4.3	5.2	3.6	-1.7	-1.4	-2.1

- The EAPC is the Estimated Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 10 cases per year within the time interval.
- <sup>i</sup> Incidence data are from the 11 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, and Los Angeles). Unless specified, other tables use data from 9 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- <sup>⊙</sup> Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians. For incidence, all 11 SEER areas are included. For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
- <sup>❖</sup> Mortality data are analyzed from a public-use file provided by the National Center for Health Statistics (NCHS).
- <sup>‡</sup> Population estimates for the Asian Pacific Islanders rates are adjusted Census Bureau estimates. The population estimates used in Wingo PA, Ries LAG, Rosenberg HM, Miller DS, Edwards BK. Cancer Incidence and mortality, 1973-1995. Cancer 82:1197-207, 1998 were unadjusted.
- <sup>★</sup> The EAPC is significantly different from zero (p<.05).

Table XIII-16  
ALL LEUKEMIASAGE-ADJUSTED SEER INCIDENCE RATES<sup>§</sup> AND SEER MORTALITY RATES\*  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES<sup>§</sup>, 1991-95</u>									
REGISTRY									
11 registries	10.3	13.2	8.0	10.7	13.8	8.3	8.4	10.3	7.0
9 registries	10.3	13.2	8.0	10.6	13.8	8.2	8.5	10.6	7.0
San Francisco-Oakland	9.3	12.0	7.2	9.8	12.9	7.3	8.1	10.1	6.7
Connecticut	9.9	12.7	7.7	9.9	12.9	7.7	8.7	9.5	8.2
Metropolitan Detroit	11.3	14.4	9.0	11.7	15.1	9.2	9.1	10.8	7.8
Hawaii	8.3	10.1	6.7	10.2	12.6	7.8	-	-	-
Iowa	11.9	15.3	9.3	11.8	15.3	9.1	-	-	-
New Mexico	10.1	12.9	7.7	10.5	13.5	7.9	-	-	-
Seattle-Puget Sound	11.1	13.9	8.9	11.2	14.0	8.9	9.6	14.3	5.6
Utah	9.2	11.9	6.9	9.2	12.0	6.9	-	-	-
Metropolitan Atlanta	9.3	12.7	6.8	9.5	12.9	7.1	7.5	10.7	5.2
San Jose-Monterey	9.9	13.1	7.4	10.5	13.9	8.0	9.8	8.7	9.2
Los Angeles	10.2	13.1	8.1	10.8	13.9	8.5	8.1	9.7	6.8
<u>SEER MORTALITY RATES*, 1991-95</u>									
REGISTRY									
11 registries	6.2	8.1	4.8	6.4	8.4	5.0	6.0	7.9	4.7
9 registries	6.3	8.2	4.8	6.4	8.5	4.9	6.0	7.9	4.6
San Francisco-Oakland	5.8	7.6	4.5	6.0	8.1	4.6	5.8	7.7	4.4
Connecticut	6.3	8.1	5.0	6.3	8.1	5.0	6.2	7.2	5.8
Metropolitan Detroit	6.6	8.9	4.9	6.8	9.2	5.1	5.9	8.1	4.3
Hawaii	4.6	5.5	3.8	6.0	7.6	4.4	-	-	-
Iowa	6.6	8.6	5.1	6.5	8.6	5.0	-	-	-
New Mexico	5.9	7.7	4.5	6.0	7.9	4.5	-	-	-
Seattle-Puget Sound	6.7	8.7	5.0	6.8	8.9	5.1	5.3	8.2	2.9
Utah	5.8	7.0	4.8	5.9	7.2	4.8	-	-	-
Metropolitan Atlanta	6.9	9.7	5.1	7.1	10.0	5.2	6.3	8.4	4.9
San Jose-Monterey	5.6	7.2	4.4	5.8	7.3	4.6	7.8	10.4	5.9
Los Angeles	6.2	7.9	5.0	6.5	8.2	5.3	6.0	7.7	4.7

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>§</sup> SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
<sup>\*</sup> 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.



Table XIII-17  
ALL LEUKEMIAS

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	6.3	0.02		
High Five States				
Minnesota	6.9	0.16	(01)	9.5
West Virginia	6.8	0.24	(02)	7.9
Wisconsin	6.8	0.15	(03)	7.9
Illinois	6.8	0.10	(04)	7.9
Alabama	6.8	0.17	(05)	7.9
Low Five States				
Nebraska	5.8	0.24	(47)	-7.9
Utah	5.8	0.26	(48)	-7.9
Rhode Island	5.7	0.31	(49)	-9.5
Alaska	5.5	0.61	(50)	-12.7
Hawaii	4.6⊕*	0.28	(51)	-27.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	6.8	0.17	(05)	7.9	Montana	6.6	0.36	(12)	4.8
Alaska	5.5	0.61	(50)	-12.7	Nebraska	5.8	0.24	(47)	-7.9
Arizona	6.3	0.17	(28)	0.0	Nevada	6.6	0.30	(11)	4.8
Arkansas	6.7	0.21	(07)	6.3	New Hampshire	6.1	0.31	(38)	-3.2
California	6.1	0.06	(39)	-3.2	New Jersey	6.6	0.12	(16)	4.8
Colorado	6.1	0.19	(36)	-3.2	New Mexico	5.9	0.27	(43)	-6.3
Connecticut	6.3	0.18	(30)	0.0	New York	6.0	0.08	(42)	-4.8
Delaware	6.2	0.40	(35)	-1.6	North Carolina	6.0	0.12	(41)	-4.8
District of Columbia	6.3	0.45	(29)	0.0	North Dakota	6.3	0.39	(31)	0.0
Florida	6.0	0.08	(40)	-4.8	Ohio	6.5	0.10	(21)	3.2
Georgia	6.4	0.14	(24)	1.6	Oklahoma	6.3	0.18	(27)	0.0
Hawaii	4.6⊕*	0.28	(51)	-27.0	Oregon	6.5	0.19	(20)	3.2
Idaho	6.6	0.33	(09)	4.8	Pennsylvania	6.7	0.09	(08)	6.3
Illinois	6.8	0.10	(04)	7.9	Rhode Island	5.7	0.31	(49)	-9.5
Indiana	6.5	0.14	(19)	3.2	South Carolina	5.9	0.17	(45)	-6.3
Iowa	6.6	0.19	(15)	4.8	South Dakota	6.5	0.38	(17)	3.2
Kansas	6.5	0.21	(23)	3.2	Tennessee	6.5	0.15	(18)	3.2
Kentucky	6.3	0.17	(32)	0.0	Texas	6.4	0.08	(26)	1.6
Louisiana	6.7	0.17	(06)	6.3	Utah	5.8	0.26	(48)	-7.9
Maine	6.5	0.30	(22)	3.2	Vermont	6.1	0.44	(37)	-3.2
Maryland	5.9	0.15	(46)	-6.3	Virginia	6.2	0.14	(33)	-1.6
Massachusetts	6.2	0.13	(34)	-1.6	Washington	6.6	0.15	(13)	4.8
Michigan	6.6	0.11	(10)	4.8	West Virginia	6.8	0.24	(02)	7.9
Minnesota	6.9	0.16	(01)	9.5	Wisconsin	6.8	0.15	(03)	7.9
Mississippi	5.9	0.20	(44)	-6.3	Wyoming	6.4	0.51	(25)	1.6
Missouri	6.6	0.14	(14)	4.8					

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

Table XIII-18  
ALL LEUKEMIAS

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	8.4	0.04		
High Five States				
Minnesota	9.7*	0.29	(01)	15.5
Alabama	9.3	0.30	(02)	10.7
Arkansas	9.3	0.37	(03)	10.7
Louisiana	9.2	0.31	(04)	9.5
Nevada	9.1	0.54	(05)	8.3
Low Five States				
Rhode Island	7.6	0.54	(47)	-9.5
Utah	7.0*	0.44	(48)	-16.7
New Hampshire	7.0*	0.51	(49)	-16.7
Alaska	6.6*	1.01	(50)	-21.4
Hawaii	5.5⊕*	0.43	(51)	-34.5

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	9.3	0.30	(02)	10.7	Montana	8.5	0.61	(24)	1.2
Alaska	6.6*	1.01	(50)	-21.4	Nebraska	7.6	0.41	(46)	-9.5
Arizona	8.5	0.29	(26)	1.2	Nevada	9.1	0.54	(05)	8.3
Arkansas	9.3	0.37	(03)	10.7	New Hampshire	7.0*	0.51	(49)	-16.7
California	7.9	0.11	(39)	-6.0	New Jersey	8.5	0.21	(25)	1.2
Colorado	8.3	0.33	(30)	-1.2	New Mexico	7.7	0.45	(44)	-8.3
Connecticut	8.1	0.31	(35)	-3.6	New York	7.9	0.13	(40)	-6.0
Delaware	8.3	0.72	(32)	-1.2	North Carolina	8.1	0.22	(36)	-3.6
District of Columbia	8.3	0.79	(33)	-1.2	North Dakota	8.6	0.67	(15)	2.4
Florida	7.8	0.14	(43)	-7.1	Ohio	8.7	0.18	(14)	3.6
Georgia	8.8	0.25	(11)	4.8	Oklahoma	8.5	0.32	(27)	1.2
Hawaii	5.5⊕*	0.43	(51)	-34.5	Oregon	8.6	0.32	(19)	2.4
Idaho	8.2	0.55	(34)	-2.4	Pennsylvania	8.7	0.16	(13)	3.6
Illinois	9.0	0.18	(07)	7.1	Rhode Island	7.6	0.54	(47)	-9.5
Indiana	8.6	0.25	(21)	2.4	South Carolina	8.0	0.32	(38)	-4.8
Iowa	8.6	0.33	(18)	2.4	South Dakota	8.9	0.66	(09)	6.0
Kansas	8.6	0.36	(20)	2.4	Tennessee	8.8	0.27	(10)	4.8
Kentucky	8.5	0.30	(22)	1.2	Texas	8.5	0.15	(23)	1.2
Louisiana	9.2	0.31	(04)	9.5	Utah	7.0*	0.44	(48)	-16.7
Maine	9.1	0.53	(06)	8.3	Vermont	8.4	0.78	(29)	0.0
Maryland	7.7	0.27	(45)	-8.3	Virginia	8.0	0.24	(37)	-4.8
Massachusetts	8.3	0.23	(31)	-1.2	Washington	8.6	0.26	(16)	2.4
Michigan	8.7	0.20	(12)	3.6	West Virginia	8.6	0.42	(17)	2.4
Minnesota	9.7*	0.29	(01)	15.5	Wisconsin	8.9	0.26	(08)	6.0
Mississippi	7.9	0.35	(42)	-6.0	Wyoming	7.9	0.85	(41)	-6.0
Missouri	8.4	0.25	(28)	0.0					

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

Table XIII-19  
ALL LEUKEMIAS

## AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1991-95

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	4.9	0.02		
High Five States				
West Virginia	5.6	0.30	(01)	14.3
New Hampshire	5.5	0.40	(02)	12.2
Idaho	5.4	0.42	(03)	10.2
Missouri	5.3	0.17	(04)	8.2
Wisconsin	5.3	0.18	(05)	8.2
Low Five States				
New Mexico	4.5	0.32	(47)	-8.2
Alaska	4.4	0.74	(48)	-10.2
Vermont	4.4	0.49	(49)	-10.2
Rhode Island	4.4	0.36	(50)	-10.2
Hawaii	3.8⊕	0.35	(51)	-22.4

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	4.9	0.19	(23)	0.0	Montana	5.0	0.43	(16)	2.0
Alaska	4.4	0.74	(48)	-10.2	Nebraska	4.6	0.29	(37)	-6.1
Arizona	4.7	0.20	(33)	-4.1	Nevada	4.7	0.35	(35)	-4.1
Arkansas	4.7	0.24	(32)	-4.1	New Hampshire	5.5	0.40	(02)	12.2
California	4.7	0.07	(34)	-4.1	New Jersey	5.2	0.14	(09)	6.1
Colorado	4.6	0.21	(41)	-6.1	New Mexico	4.5	0.32	(47)	-8.2
Connecticut	5.0	0.22	(15)	2.0	New York	4.6	0.09	(40)	-6.1
Delaware	5.1	0.50	(12)	4.1	North Carolina	4.5	0.14	(46)	-8.2
District of Columbia	5.2	0.56	(10)	6.1	North Dakota	4.5	0.47	(45)	-8.2
Florida	4.6	0.10	(38)	-6.1	Ohio	5.0	0.12	(20)	2.0
Georgia	4.8	0.16	(27)	-2.0	Oklahoma	4.8	0.21	(28)	-2.0
Hawaii	3.8⊕	0.35	(51)	-22.4	Oregon	4.9	0.22	(24)	0.0
Idaho	5.4	0.42	(03)	10.2	Pennsylvania	5.2	0.11	(06)	6.1
Illinois	5.2	0.12	(08)	6.1	Rhode Island	4.4	0.36	(50)	-10.2
Indiana	5.1	0.17	(14)	4.1	South Carolina	4.5	0.20	(42)	-8.2
Iowa	5.1	0.23	(13)	4.1	South Dakota	4.8	0.45	(29)	-2.0
Kansas	4.9	0.24	(22)	0.0	Tennessee	5.0	0.17	(18)	2.0
Kentucky	4.6	0.19	(39)	-6.1	Texas	4.9	0.10	(26)	0.0
Louisiana	5.0	0.20	(17)	2.0	Utah	4.8	0.33	(31)	-2.0
Maine	4.6	0.34	(36)	-6.1	Vermont	4.4	0.49	(49)	-10.2
Maryland	4.5	0.18	(44)	-8.2	Virginia	5.0	0.16	(19)	2.0
Massachusetts	4.8	0.16	(30)	-2.0	Washington	4.9	0.18	(21)	0.0
Michigan	5.1	0.13	(11)	4.1	West Virginia	5.6	0.30	(01)	14.3
Minnesota	4.9	0.18	(25)	0.0	Wisconsin	5.3	0.18	(05)	8.2
Mississippi	4.5	0.23	(43)	-8.2	Wyoming	5.2	0.63	(07)	6.1
Missouri	5.3	0.17	(04)	8.2					

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

# SEER Incidence and U.S. Mortality Leukemias, Male By Race

## White

## Black

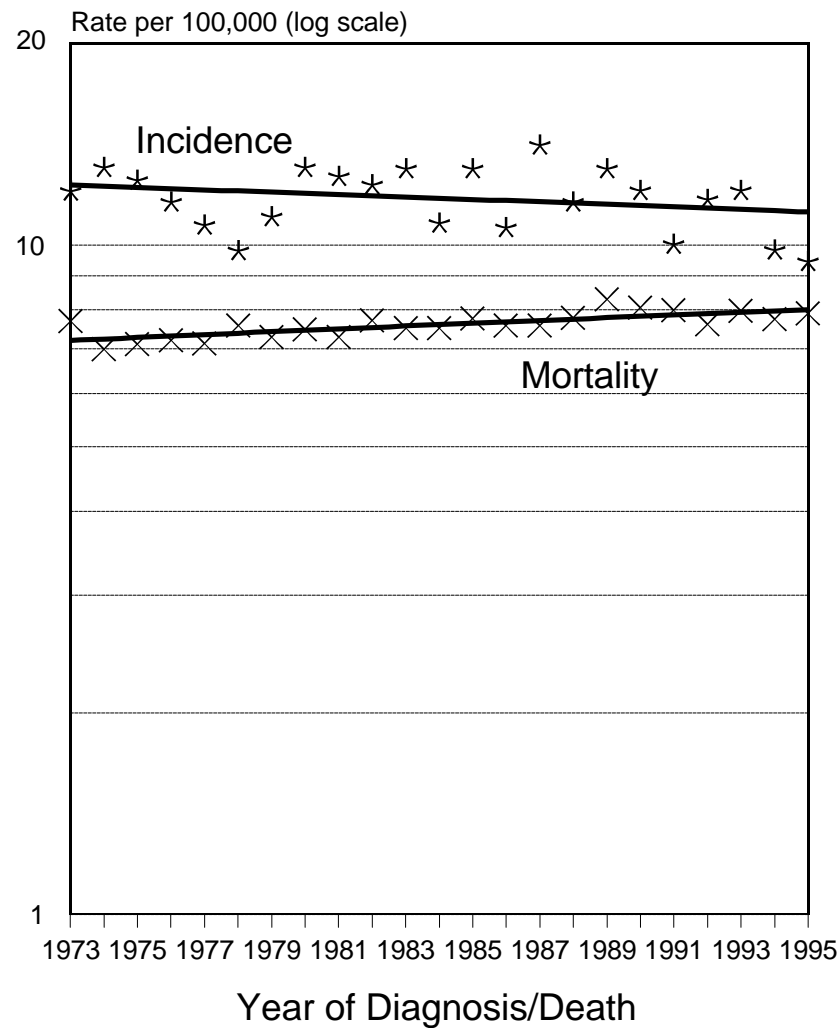
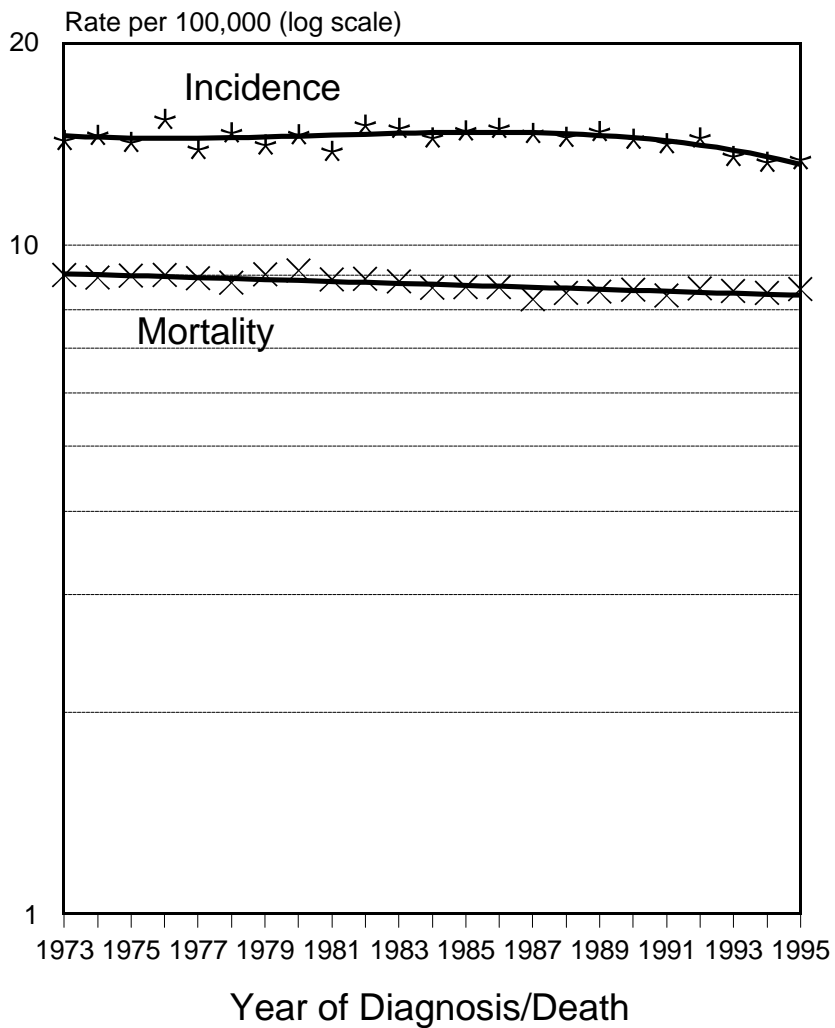


Figure XIII-1

# SEER Incidence and U.S. Mortality Leukemias, Female By Race

## White

## Black

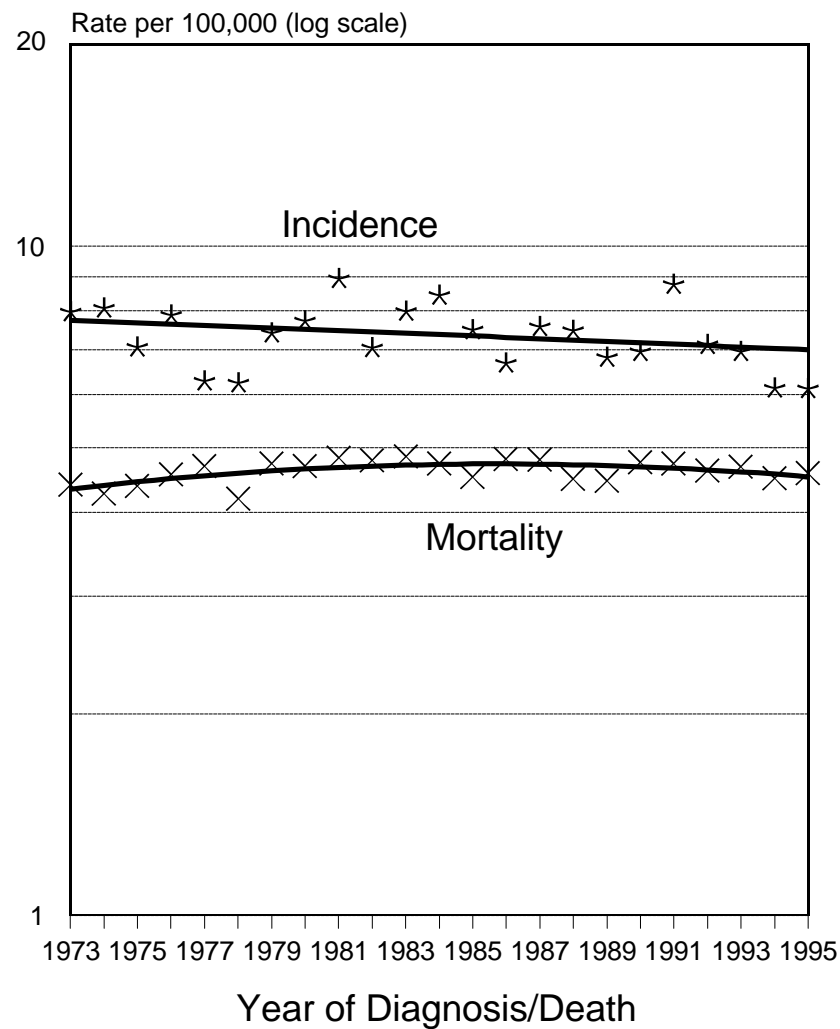
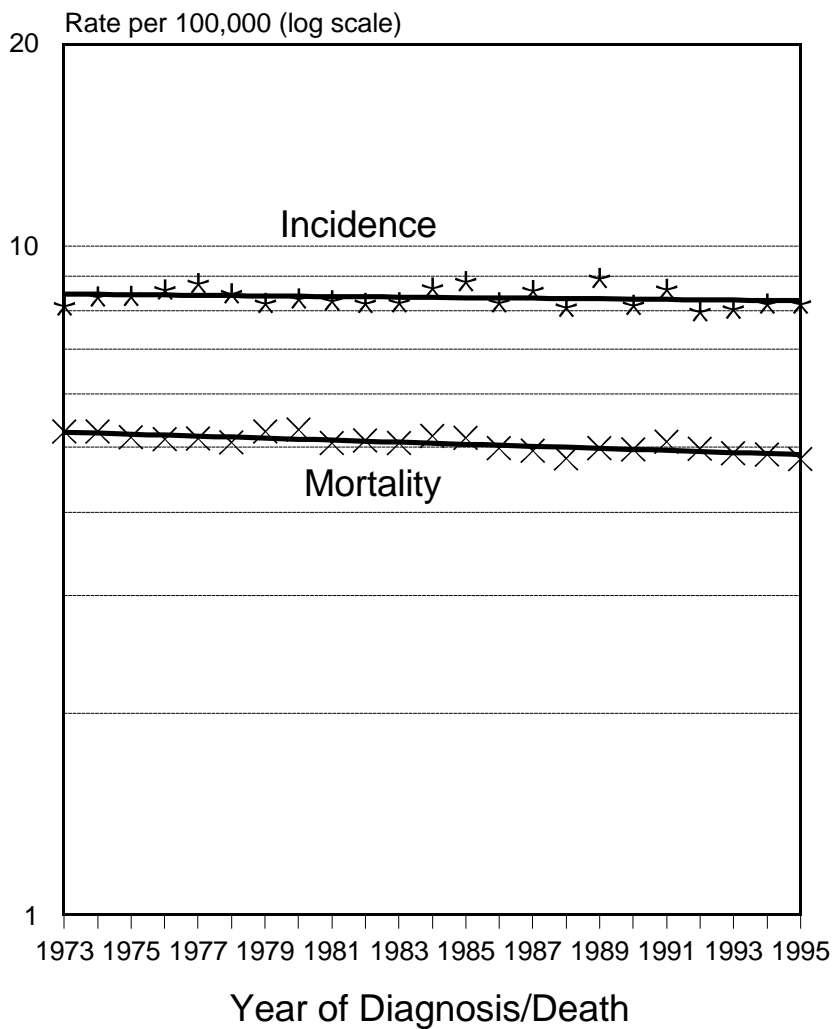


Figure XIII-2

# SEER Incidence Lymphocytic Leukemias By Sex

## Male

## Female

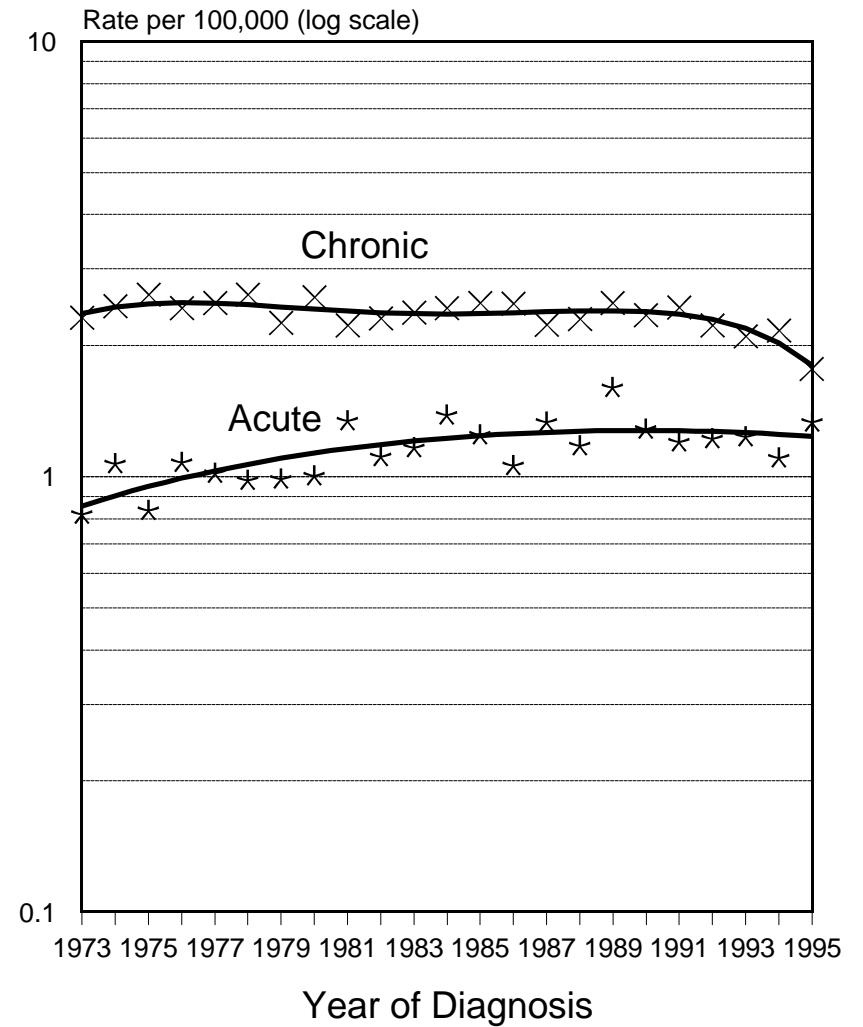
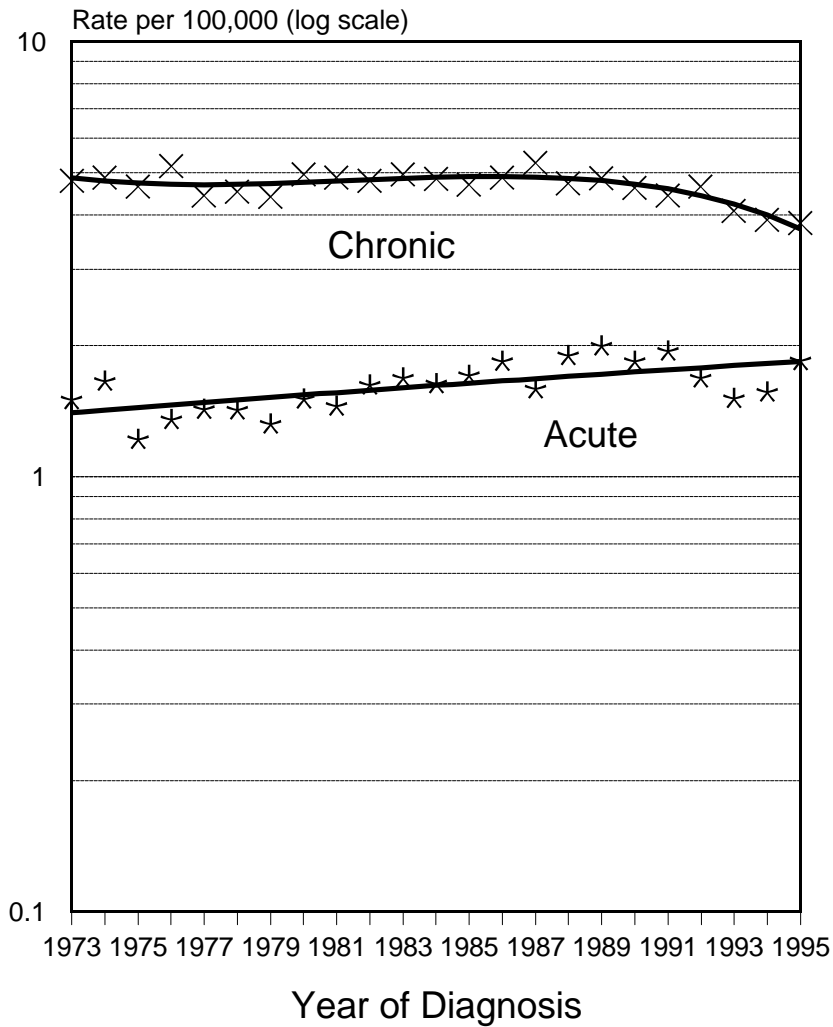


Figure XIII-3

# SEER Incidence Myeloid Leukemias By Sex

## Male

## Female

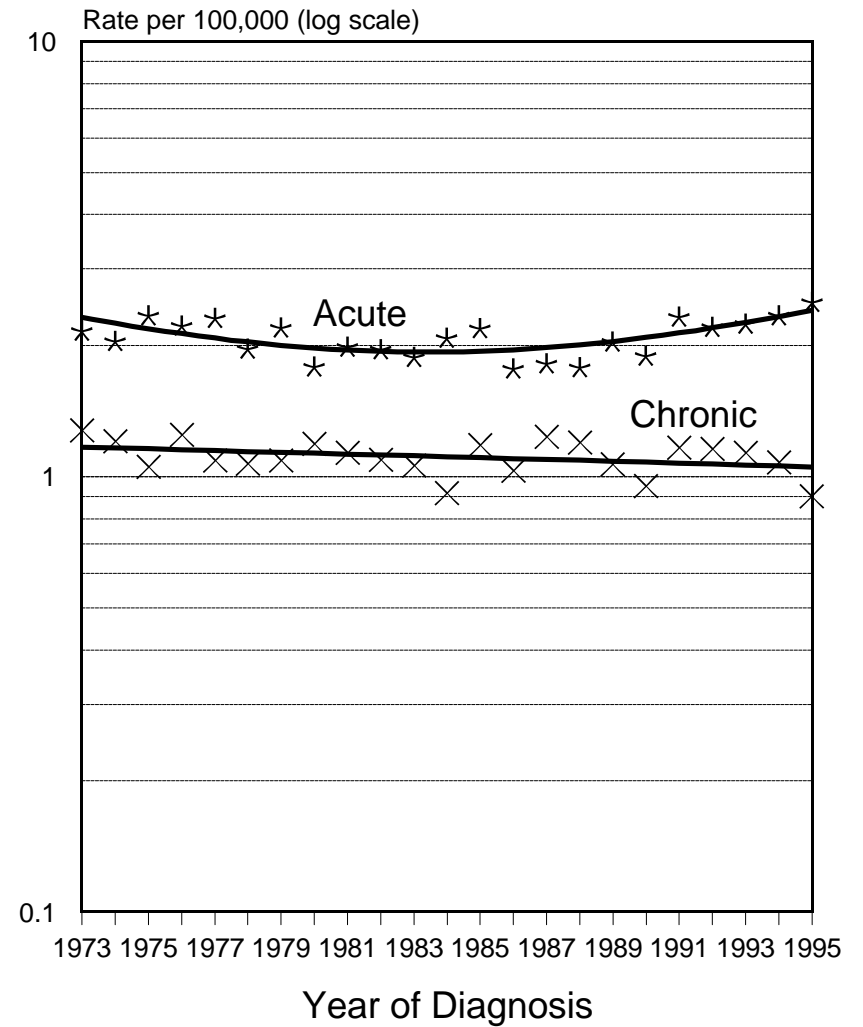
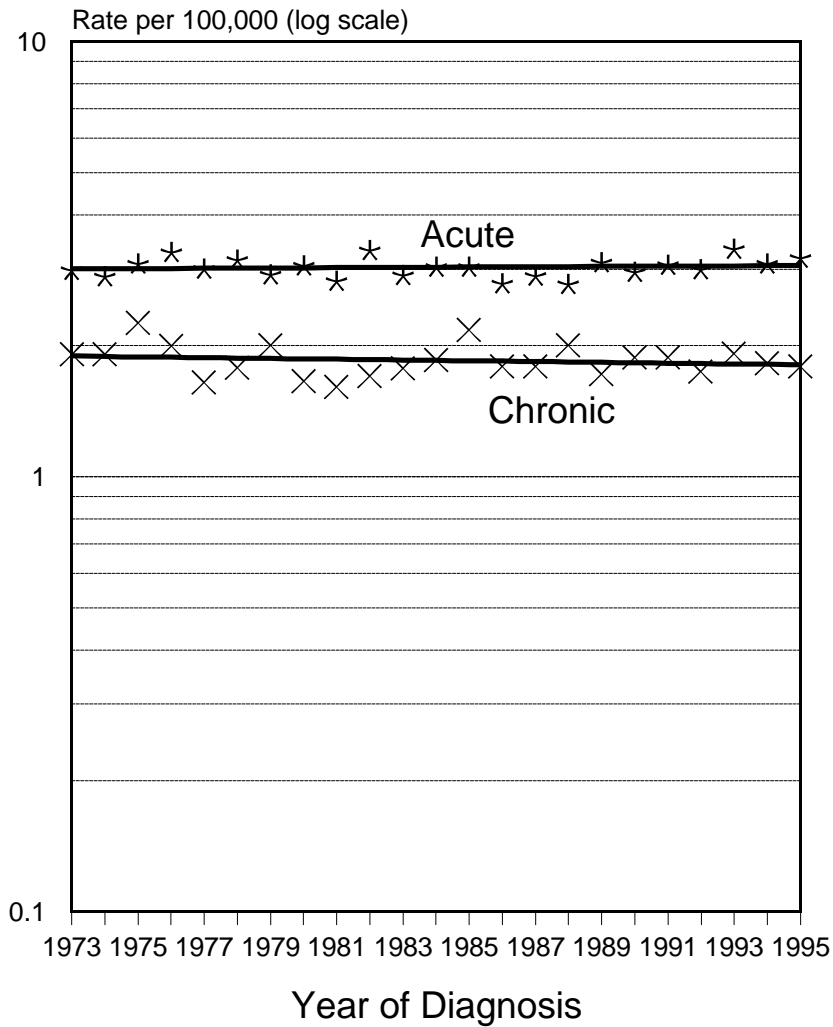


Figure XIII-4