

Section XXVIII
Childhood Cancer by Site
Incidence, Survival and Mortality

The site groupings used in this section correspond to those used in the rest of the Cancer Statistics Review. While these groupings are not as appropriate for children as they are for adults, they are necessary in order to be able to compare incidence to mortality.

Childhood cancer is better categorized by groupings based on histologic type and site rather than primary site alone (see section XXIX for Childhood Cancer by the International Classification of Childhood Cancer). For the leukemias and lymphomas, the categories are similar, but for solid tumors the categories can be quite different and the different terminology confusing. For example, in this section 'soft tissue' refers to any type of tumor that arises in connective or soft tissue in contrast to 'soft tissue sarcomas' in the other section, which refers to soft tissue sarcomas in any primary site.

Rates are presented per 100,000 children in this section. In contrast in the other childhood cancer section rates are presented per million children.

Table XXVIII-1

AGE-ADJUSTED SEER CANCER INCIDENCE^a AND U.S. DEATH^b RATES, 2000-2003

By Primary Cancer Site

All Races, Males and Females

Site	Ages 0-14						Ages 0-19					
	Incidence			Mortality			Incidence			Mortality		
	Total	Males	Females									
All Sites												
All Races	14.8	15.7	13.9	2.5	2.7	2.3	16.4	17.4	15.2	2.8	3.1	2.5
Whites	15.7	16.7	14.7	2.6	2.7	2.4	17.5	18.8	16.2	2.8	3.1	2.5
Blacks	10.7	10.9	10.4	2.4	2.6	2.1	11.3	11.7	10.9	2.7	3.0	2.4
Bone & Joint	0.7	0.7	0.6	0.1	0.1	0.1	0.9	1.0	0.7	0.2	0.3	0.2
Brain & Other nervous	3.3	3.4	3.1	0.7	0.8	0.7	2.9	3.1	2.8	0.7	0.7	0.6
Hodgkin lymphoma	0.5	0.7	0.4	0.0	0.0		1.1	1.2	1.1	0.0	0.0	0.0
Kidney & Renal pelvis	0.8	0.8	0.8	0.1	0.1	0.1	0.6	0.6	0.6	0.1	0.1	0.1
Leukemia	4.8	5.1	4.5	0.8	0.9	0.7	4.3	4.7	3.9	0.9	1.0	0.8
Acute lymphocytic	3.8	4.0	3.5	0.4	0.4	0.3	3.2	3.5	2.9	0.4	0.5	0.3
Non-Hodgkin lymphoma	0.9	1.2	0.6	0.1	0.1	0.1	1.1	1.5	0.7	0.1	0.2	0.1
Soft tissue	1.0	1.0	1.0	0.1	0.1	0.1	1.1	1.1	1.0	0.2	0.2	0.2

^a SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table XXVIII-2

AGE-ADJUSTED SEER CANCER INCIDENCE RATES^a, 1975-2003

By Primary Cancer Site

All Races, Males and Females

Year of Diagnosis

Age/Site	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<u>Ages 0-14</u>																					
All Sites																					
All Races	11.5	12.9	14.5	14.3	14.2	13.5	15.1	14.2	15.1	13.4	14.9	13.9	14.0	14.7	14.0	15.3	14.4	15.4	15.6	15.2	12.8
Whites	12.1	13.1	15.6	14.9	14.7	14.0	15.6	14.2	16.1	13.8	15.2	14.5	14.8	14.9	14.7	16.2	15.4	16.6	16.8	16.5	13.6
Blacks	8.6	11.1	10.1	10.9	11.6	11.9	13.7	12.3	11.5	12.0	12.4	12.2	11.3	11.4	11.3	9.9	10.3	11.9	10.9	11.0	9.9
Bone & Joint	0.5	0.7	0.8	0.7	0.7	0.6	0.6	0.7	0.9	0.5	0.6	0.8	0.8	0.5	0.9	0.6	0.6	0.6	0.6	0.7	0.5
Brain & Other nervous	2.3	2.8	3.0	3.5	3.1	3.3	3.2	3.5	3.5	3.2	3.4	3.3	3.3	3.1	2.8	3.1	3.4	3.4	3.8	3.7	2.9
Hodgkin lymphoma	0.7	0.5	0.7	0.5	0.6	0.6	0.7	0.6	0.6	0.5	0.6	0.5	-	0.6	0.6	0.6	0.4	0.6	0.5	0.5	0.4
Kidney & Renal pelvis	0.7	0.8	0.9	0.9	0.9	0.8	1.1	0.8	0.9	0.7	1.0	1.2	0.6	1.0	1.0	1.1	0.7	1.0	0.9	0.9	0.7
Leukemia	3.3	4.0	4.6	4.1	4.4	4.1	4.8	4.4	4.6	4.0	4.2	3.7	4.4	4.6	4.2	4.8	4.6	4.6	4.4	4.8	3.9
Acute lymphocytic	2.2	3.1	3.5	3.3	3.4	3.3	4.0	3.4	3.5	3.1	3.1	2.9	3.6	3.5	3.5	3.9	3.5	3.5	3.5	4.0	3.1
Non-Hodgkin lymphoma	1.0	0.7	0.7	1.0	1.1	0.7	0.7	0.8	0.9	0.8	0.8	1.0	0.9	0.6	0.9	0.9	0.8	1.0	1.0	1.0	1.0
Soft tissue	0.9	0.9	0.9	0.9	0.8	0.6	0.9	0.7	1.1	0.7	0.6	0.9	0.9	1.1	1.0	1.1	0.9	1.0	1.1	1.0	0.8
<u>Ages 0-19</u>																					
All Sites																					
All Races	12.9	14.4	15.9	15.9	15.4	15.1	16.6	15.6	16.3	16.0	16.2	15.5	15.7	16.1	15.6	16.2	15.6	16.8	16.9	17.2	15.4
Whites	13.4	14.8	17.1	16.7	16.3	15.6	17.2	15.9	17.5	16.7	16.6	16.1	16.6	16.5	16.7	17.3	16.6	18.2	18.3	19.1	16.5
Blacks	10.8	11.0	10.6	12.6	11.3	12.9	14.0	13.2	12.2	12.3	13.1	13.0	12.0	12.6	11.2	11.2	10.9	12.9	11.3	10.9	11.1
Bone & Joint	0.7	0.9	1.0	0.9	1.0	0.8	0.9	0.8	1.0	0.9	0.8	1.0	0.9	0.7	1.2	0.8	0.7	0.8	0.9	1.0	0.7
Brain & Other nervous	2.1	2.5	2.7	3.2	2.9	3.0	3.0	3.2	3.0	3.3	3.0	2.9	3.0	3.0	2.6	2.7	3.0	3.1	3.4	3.3	2.7
Hodgkin lymphoma	1.5	1.2	1.4	1.3	1.4	1.3	1.7	1.3	1.4	1.4	1.3	1.3	0.9	1.4	1.3	1.4	1.1	1.1	1.1	1.2	1.1
Kidney & Renal pelvis	0.5	0.6	0.7	0.7	0.7	0.6	0.9	0.6	0.7	0.6	0.8	0.9	0.5	0.7	0.8	0.8	0.6	0.8	0.7	0.7	0.6
Leukemia	3.0	3.5	4.0	3.7	3.7	3.6	4.2	3.8	4.1	3.7	3.7	3.4	3.9	3.9	3.7	4.2	4.0	4.1	3.9	4.5	3.7
Acute lymphocytic	1.9	2.5	2.9	2.8	2.7	2.7	3.4	2.9	3.0	2.6	2.6	2.5	3.1	2.9	2.9	3.3	2.9	3.0	2.8	3.4	2.8
Non-Hodgkin lymphoma	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.0	1.1	1.0	0.9	1.2	1.1	1.0	1.1	1.0	0.9	1.4	1.1	1.2	1.3
Soft tissue	0.8	0.9	0.9	0.9	0.9	0.7	0.9	0.8	1.1	0.7	0.7	0.7	1.1	1.0	1.0	1.1	1.0	1.2	1.1	1.0	0.9

^a SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table XXVIII-3

AGE-ADJUSTED CANCER U.S. DEATH RATES^a, 1975-2003

By Primary Cancer Site

All Races, Males and Females

Year of Death

Age/Site	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<u>Ages 0-14</u>																					
All Sites	4.9	4.3	3.6	3.5	3.4	3.3	3.3	3.1	3.1	3.0	3.0	2.8	2.7	2.6	2.6	2.4	2.5	2.5	2.5	2.6	2.5
Bone & Joint	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Brain & Other nervous	1.0	0.9	0.8	0.9	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8
Hodgkin lymphoma	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kidney & Renal pelvis	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Leukemia	2.1	1.7	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.8
Acute lymphocytic	1.2	0.9	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4
Non-Hodgkin lymphoma	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Soft tissue	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1
<u>Ages 0-19</u>																					
All Sites	5.1	4.6	3.8	3.8	3.7	3.6	3.5	3.4	3.4	3.3	3.3	3.1	3.0	2.9	2.9	2.7	2.8	2.8	2.8	2.8	2.8
Bone & Joint	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
Brain & Other nervous	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7
Hodgkin lymphoma	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Kidney & Renal pelvis	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Leukemia	2.0	1.8	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.9	1.0	0.8	0.8	0.9	0.9	0.8	0.8
Acute lymphocytic	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Non-Hodgkin lymphoma	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Soft tissue	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table XXVIII-4

AGE-ADJUSTED CANCER U.S. DEATH RATES^a, 1975-2003

By Primary Cancer Site

Whites, Males and Females

Year of Death

Age/Site	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<u>Ages 0-14</u>																					
All Sites	5.0	4.4	3.7	3.6	3.6	3.3	3.4	3.2	3.2	3.1	3.1	2.8	2.7	2.7	2.7	2.5	2.5	2.6	2.5	2.6	2.6
Bone & Joint	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Brain & Other nervous	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.8
Hodgkin lymphoma	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kidney & Renal pelvis	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Leukemia	2.3	1.8	1.4	1.4	1.4	1.2	1.2	1.1	1.1	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.9	0.8	0.7	0.9
Acute lymphocytic	1.2	1.0	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Non-Hodgkin lymphoma	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Soft tissue	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1
<u>Ages 0-19</u>																					
All Sites	5.3	4.7	3.9	3.9	3.7	3.6	3.6	3.5	3.5	3.4	3.3	3.1	2.9	2.9	2.9	2.8	2.8	2.9	2.8	2.8	2.8
Bone & Joint	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2
Brain & Other nervous	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Hodgkin lymphoma	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Kidney & Renal pelvis	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Leukemia	2.1	1.8	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9
Acute lymphocytic	1.1	1.0	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4
Non-Hodgkin lymphoma	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Soft tissue	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table XXVIII-5

AGE-ADJUSTED CANCER U.S. DEATH RATES^a, 1975-2003

By Primary Cancer Site

Blacks, Males and Females

Year of Death

Age/Site	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<u>Ages 0-14</u>																					
All Sites	4.5	3.8	3.3	3.5	3.0	3.2	3.2	3.0	3.0	2.7	2.6	2.8	2.9	2.5	2.5	2.4	2.5	2.3	2.3	2.6	2.4
Bone & Joint	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brain & Other nervous	0.9	0.9	0.6	0.9	0.7	1.0	0.8	0.7	0.8	0.7	0.6	0.8	0.8	0.7	0.6	0.7	0.7	0.7	0.6	0.8	0.7
Hodgkin lymphoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kidney & Renal pelvis	-	-	0.2	-	-	-	-	-	-	-	0.2	-	-	-	0.2	-	-	-	0.2	-	-
Leukemia	1.6	1.2	1.2	1.1	1.0	0.9	1.0	0.9	1.0	0.8	0.9	0.8	1.0	0.8	0.7	0.7	0.7	0.5	0.8	0.6	0.6
Acute lymphocytic	0.8	0.6	0.7	0.6	0.5	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.2
Non-Hodgkin lymphoma	0.4	0.2	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soft tissue	-	-	-	-	0.3	0.2	0.2	0.3	-	-	0.2	0.3	-	-	0.2	0.2	0.2	-	0.2	0.2	-
<u>Ages 0-19</u>																					
All Sites	4.8	4.2	3.5	3.7	3.6	3.5	3.5	3.4	3.3	3.0	3.1	3.2	3.1	2.9	2.9	2.6	3.0	2.8	2.6	2.8	2.5
Bone & Joint	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	-	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.3	0.2	0.2	0.2
Brain & Other nervous	0.9	0.8	0.6	0.8	0.7	0.9	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.5	0.8	0.6
Hodgkin lymphoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kidney & Renal pelvis	0.2	-	0.2	0.2	-	0.2	-	-	-	-	0.1	-	-	-	0.1	0.1	-	0.1	0.2	-	-
Leukemia	1.6	1.4	1.1	1.2	1.2	1.0	1.1	1.0	1.1	0.8	1.0	1.0	1.1	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.6
Acute lymphocytic	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.3	0.2	0.2
Non-Hodgkin lymphoma	0.4	0.3	0.2	0.3	0.2	-	0.2	0.2	0.2	-	0.2	0.1	0.2	0.1	0.2	-	0.2	0.1	0.2	0.2	0.2
Soft tissue	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table XXVIII-6

AGE-ADJUSTED SEER CANCER INCIDENCE TRENDS, 1975-2003, 1975-1988, 1989-2003^a

By Primary Cancer Site

All Races, Males and Females

Site	Ages 0-14				Ages 0-19			
	% Change 1975-2003	APC 1975-2003	APC 1975-1988	APC 1989-2003	% Change 1975-2003	APC 1975-2003	APC 1975-1988	APC 1989-2003
All Sites								
All Races	11.6	0.6*	1.1*	0.1 [#]	19.2	0.6*	1.1*	0.2 [#]
Whites	12.6	0.7*	1.1*	0.5	23.3	0.7*	1.2*	0.6
Blacks	15.0	0.2	1.2	-1.5* [#]	2.7	0.0	0.8	-1.4* [#]
Bone & Joint	6.4	0.1	2.1	-0.9 [@]	2.6	0.3	1.8*	-0.3
Brain & Other nervous	29.1	1.1*	2.1*	0.1 [#]	27.5	1.0*	2.0*	0.0 [#]
Hodgkin lymphoma	-38.8	-1.3*	-1.5	-2.0	-29.7	-0.9*	-0.5	-2.0* [@]
Kidney & Renal pelvis	4.3	0.1	0.3	-1.0	9.4	0.2	0.3	-0.9
Leukemia	20.2	0.6*	1.3*	0.1 [@]	22.0	0.7*	1.0*	0.3
Acute lymphocytic	40.1	0.8*	1.8*	0.2 [@]	44.7	0.9*	1.8*	0.3 [@]
Non-Hodgkin lymphoma	-4.5	0.5	0.3	1.8*	26.2	0.9*	1.3*	1.4*
Soft tissue	-5.8	1.1*	0.3	1.3	10.1	1.1*	1.1	1.5

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

* SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

[#] The APC is significantly different from zero (p<.05)

[@] The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.05).

- The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.10).

- Statistic could not be calculated. Trend based on less than 10 cases for at least one year within the time interval.

Table XXVIII-7

AGE-ADJUSTED CANCER U.S. MORTALITY TRENDS, 1975-2003, 1975-1988, 1989-2003^a

By Race and Primary Cancer Site

Males and Females

Site	Ages 0-14				Ages 0-19			
	% Change 1975-2003	APC 1975-2003	APC 1975-1988	APC 1989-2003	% Change 1975-2003	APC 1975-2003	APC 1975-1988	APC 1989-2003
<u>All Races</u>								
All Sites	-48.0	-2.7*	-3.0*	-2.0*#	-46.6	-2.4*	-2.8*	-1.9*#
Bone & Joint	-39.8	-1.9*	-3.5*	0.6#	-34.2	-1.6*	-3.1*	0.3#
Brain & Other nervous	-24.2	-1.1*	-1.5*	-1.2*	-23.1	-1.1*	-1.4*	-1.2*
Hodgkin lymphoma	-	-	-	-	-79.1	-4.5*	-3.5*	-4.3*
Kidney & Renal pelvis	-49.5	-3.0*	-3.7*	-1.0#	-43.8	-2.7*	-3.6*	-0.9#
Leukemia	-61.3	-3.8*	-4.4*	-3.1*#	-58.4	-3.4*	-3.9*	-2.9*#
Acute lymphocytic	-65.0	-4.7*	-5.2*	-3.3*#	-61.2	-4.0*	-4.4*	-3.0*#
Non-Hodgkin lymphoma	-77.0	-5.0*	-4.6*	-5.6*	-71.3	-4.1*	-3.8*	-4.6*
Soft tissue	-3.9	-1.3*	0.6	-1.6*®	4.2	-0.7*	0.8	-1.6*#
<u>Whites</u>								
All Sites	-47.5	-2.7*	-3.0*	-2.0*#	-45.9	-2.5*	-2.8*	-1.9*#
Bone & Joint	-34.1	-1.7*	-2.9*	0.5#	-27.8	-1.5*	-2.7*	0.3#
Brain & Other nervous	-22.2	-1.0*	-1.4*	-1.3*	-20.9	-1.1*	-1.3*	-1.3*
Hodgkin lymphoma	-	-	-	-	-75.0	-4.6*	-3.9*	-4.2*
Kidney & Renal pelvis	-46.7	-2.9*	-4.0*	-1.2#	-39.4	-2.7*	-3.5*	-1.0#
Leukemia	-61.1	-3.9*	-4.6*	-3.1*#	-58.4	-3.4*	-4.1*	-2.8*#
Acute lymphocytic	-63.8	-4.6*	-5.6*	-3.0*#	-59.9	-4.0*	-4.7*	-2.8*#
Non-Hodgkin lymphoma	-78.7	-5.0*	-4.3*	-6.1*	-73.9	-4.2*	-3.6*	-5.4*#
Soft tissue	3.3	-1.3*	0.7	-1.4*®	17.4	-0.6*	1.0	-1.3*#
<u>Blacks</u>								
All Sites	-47.4	-2.4*	-2.6*	-2.0*	-47.3	-2.2*	-2.5*	-1.9*
Bone & Joint	-56.0	-	-	-	-58.8	-2.1*	-5.4*	0.6#
Brain & Other nervous	-28.2	-1.1*	-1.3	-0.7	-26.7	-1.1*	-1.1	-0.8
Hodgkin lymphoma	-	-	-	-	-100.0	-	-	-
Kidney & Renal pelvis	-	-	-	-	-50.1	-	-	-
Leukemia	-62.1	-3.5*	-3.4*	-3.1*	-58.9	-2.9*	-2.7*	-3.3*
Acute lymphocytic	-71.7	-4.8*	-2.6*	-5.2*®	-69.6	-3.8*	-2.0*	-4.6*#
Non-Hodgkin lymphoma	-77.6	-	-	-	-63.3	-3.5*	-5.2*	-1.4#
Soft tissue	-15.9	-	-	-	-26.1	-0.9	0.9	-2.0*®

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

^a NCHS public use data file for the total US.

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

The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.05).

® The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.10).

- Statistic could not be calculated. Trend based on less than 10 cases for at least one year within the time interval.

Table XXVIII-8

5-YEAR RELATIVE SURVIVAL RATES (Percent)

By Selected Primary Cancer Site and Year of Diagnosis

All Races, Males and Females

Site	Ages 0-14							
	1975-1977	1978-1980	1981-1983	1984-1986	1987-1989	1990-1992	1993-1995	1996-2002
All Sites								
All Races	58.0	62.6	66.7	68.2	71.4	75.4	77.0	79.4 ^a
Whites	58.2	63.0	67.5	70.1	72.2	76.6	78.1	80.9 ^a
Blacks	57.7	57.7	62.2	56.3	65.3	70.8	72.7	73.7 ^a
Bone & Joint	51.3 ^b	48.7	56.8 ^b	59.4 ^b	66.8 ^b	66.8	73.9	71.6 ^a
Brain & ONS	56.9	57.7	56.0	61.8	63.8	64.0	70.1	74.1 ^a
Hodgkin lymphoma	80.5	87.7	87.7	90.8	87.1	96.7	94.6	95.3 ^a
Leukemia	50.3	58.4	62.9	63.8	71.0	75.3	75.7	81.0 ^a
Acute lymphocytic	57.6	66.4	71.3	72.5	77.7	83.0	83.8	87.0 ^a
Acute myeloid	18.8	25.8	26.7 ^b	30.0 ^b	36.2 ^b	41.0	41.0 ^b	53.1 ^a
Neuroblastoma	52.4	56.9	54.5	52.0	61.9	76.6	67.2	68.7 ^a
Non-Hodgkin lymphoma	42.6	52.7	66.9	70.3	70.7	75.9	80.6	86.0 ^a
Soft tissue	61.0	74.3	69.2	73.4	65.4	79.2	76.4	71.7 ^a
Wilms' tumor	73.1	78.6	86.4	90.7	92.2	91.9	91.4	92.1 ^a

Site	Ages 0-19							
	1975-1977	1978-1980	1981-1983	1984-1986	1987-1989	1990-1992	1993-1995	1996-2002
All Sites								
All Races	61.5	65.2	68.0	70.6	73.3	76.0	77.4	79.5 ^a
Whites	61.5	65.8	69.0	72.5	74.8	77.5	78.4	80.9 ^a
Blacks	60.0	60.1	62.3	58.2	64.3	68.5	73.8	72.7 ^a
Bone & Joint	51.1	48.4	51.2	57.2	63.5	68.2	68.6	68.0 ^a
Brain & ONS	58.7	58.1	57.6	64.0	65.9	66.1	71.0	75.1 ^a
Hodgkin lymphoma	86.0	88.7	85.4	90.8	88.9	94.2	93.9	95.1 ^a
Leukemia	45.5	53.6	58.1	60.4	67.5	71.2	71.8	76.4 ^a
Acute lymphocytic	54.1	62.4	67.1	70.1	75.0	79.7	81.3	83.5 ^a
Acute myeloid	18.7	26.2	26.4	31.7	36.9	41.0	39.4	48.4 ^a
Neuroblastoma	52.7	57.0	53.4	52.0	60.5	76.3	67.0	69.0 ^a
Non-Hodgkin lymphoma	43.4	53.9	63.5	68.1	70.3	72.1	77.8	81.9 ^a
Soft tissue	65.2	68.8	68.2	72.4	67.2	68.9	73.8	70.9
Wilms' tumor	72.6	78.0	86.5	91.0	92.2	91.3	91.5	92.1 ^a

Source: SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Rates are based on follow-up of patients into 2003.

- ^a The difference in rates between 1975-1977 and 1996-2002 is statistically significant ($p < .05$).
^b The standard error of the survival rate is between 5 and 10 percentage points.
^c The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table XXVIII-9

CHILDHOOD CANCER
SEER Incidence, U.S. Death and 5-Year Relative Survival Rates
For Top Cancer Sites^f By 5-Year Age Groups
All Races, Males and Females

Age/Site	SEER Incidence ^a					US Mortality ^b					Survival ^a	
	2000-2003 Num Cases	2000-2003 Rate	1975-2003 APC	1975-1988 APC	1989-2003 APC	2000-2003 Num Deaths	2000-2003 Rate	1975-2003 APC	1975-1988 APC	1989-2003 APC	1975-1977	1996-2002
Ages 0-4												
All Sites	4,457	21.0	0.7*	1.1*	0.1 ^o	1,941	2.5	-2.8*	-2.7*	-2.3*	57.3	80.1 ^c
Soft tissue	342	1.6	0.6	0.8	1.0	93	0.1	-2.1*	-0.1	-2.6	61.1 ^e	71.3
Kidney and Renal pelvis	390	1.8	0.3	-0.5	-0.4	67	0.1	-4.0*	-6.4*	-1.5 [#]	72.2	92.0 ^c
Eye and Orbit	270	1.3	0.7	1.5	-0.3	24	0.0	-	-	-	87.1 ^e	94.5
Brain and Other nervous	845	4.0	1.4*	3.6*	0.3 [#]	488	0.6	-1.3*	-1.4*	-1.8*	52.4	71.0 ^c
Other endocrine	290	1.4	-	-	-	317	0.4	-	-	-	33.8 ^e	63.8 ^c
Leukemia	1,649	7.8	0.7*	1.1	0.5	643	0.8	-3.2*	-3.9*	-2.3* [#]	55.6	85.2 ^c
Acute lymphocytic	1,332	6.3	0.8*	1.7*	0.7	226	0.3	-4.6*	-5.8*	-1.9* [#]	63.4	90.5 ^c
Ages 5-9												
All Sites	2,475	11.2	0.3	1.0	-0.1	2,035	2.5	-3.0*	-3.5*	-2.2* [#]	58.2	77.9 ^c
Brain and Other nervous	707	3.2	0.5	1.6	-0.1	713	0.9	-0.8*	-1.1*	-1.3*	58.0	72.4 ^c
Leukemia	847	3.8	0.6	1.0	-0.9	599	0.7	-5.0*	-5.7*	-4.3* [#]	52.0	80.7 ^c
Acute lymphocytic	701	3.2	0.9*	1.8	-0.5	331	0.4	-5.8*	-6.6*	-4.2* [#]	55.2	84.0 ^c
Ages 10-14												
All Sites	2,814	12.5	0.7*	1.1	0.1	2,135	2.5	-2.2*	-2.7*	-1.5* [#]	58.8	79.7 ^c
Bone and Joint	285	1.3	0.0	2.7*	-1.7 [#]	259	0.3	-1.5*	-3.3*	0.9 [#]	53.8 ^e	69.8 ^c
Brain and Other nervous	593	2.6	1.3*	0.6	0.1	576	0.7	-1.2*	-2.1*	-0.6	59.5	80.1 ^c
Hodgkin lymphoma	242	1.1	-1.1*	-1.1	-2.3	18	0.0	-	-	-	78.7	95.2 ^c
Leukemia	640	2.8	0.4	3.0	0.4	697	0.8	-3.0*	-3.2*	-2.8*	35.2	70.1 ^c
Acute lymphocytic	440	1.9	0.8	3.6	0.0 ^o	348	0.4	-3.4*	-2.8*	-3.1*	43.6 ^e	80.7 ^c
Ages 15-19												
All Sites	4,487	21.0	0.6*	1.0*	0.4	2,890	3.6	-2.0*	-2.4*	-1.6* [#]	67.7	79.7 ^c
Bone and Joint	330	1.5	0.5	1.4	0.4	397	0.5	-1.5*	-2.8*	0.2 [#]	51.0 ^e	63.3 ^c
Melanoma of the skin	364	1.7	1.7*	0.8	1.0	34	0.0	-	-	-	75.1 ^e	97.5 ^c
Testis(males)	373	3.4	1.2*	1.6	0.4	35	0.1	-	-	-	66.0 ^e	91.7 ^c
Brain and Other nervous	423	2.0	0.4	1.3	-1.0	436	0.5	-1.1*	-1.0	-1.0*	64.7	79.9 ^c
Thyroid	384	1.8	1.4*	1.3	2.6*	-	-	-	-	-	100.0	97.5
Hodgkin lymphoma	629	2.9	-0.7*	0.0	-2.0* ^o	89	0.1	-4.3*	-2.8*	-4.4*	88.9	94.9 ^c
Non-Hodgkin lymphoma	389	1.8	1.7*	3.5*	1.0	218	0.3	-2.7*	-2.5*	-3.3*	45.2 ^e	75.5 ^c
Leukemia	632	3.0	0.9*	-0.3	1.9	887	1.1	-2.1*	-2.2*	-2.4*	24.4	48.9 ^c
Acute lymphocytic	360	1.7	1.2*	1.6	1.6	391	0.5	-2.0*	-1.2	-2.3*	29.5 ^e	52.7 ^c

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

Note: Incidence and death rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Survival rates are expressed as percents.

^a Incidence data used in calculating the rates are from the 17 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

Incidence data used in calculating the trends and survival estimates are from the 9 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

^b NCHS public use data file for the total US.

^c The difference in rates between 1975-1977 and 1996-2002 is statistically significant (p<.05).

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

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

^f Sites were chosen based on more than 100 SEER incident cases between 2000-2003.

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

The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.05).

^o The APC for 1989-2003 is significantly different from the APC for 1975-1988 (p<.10).

- Statistic not shown. Rate based on less than 16 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

Table XXVIII-10
ALL SITES (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males and Females

Ages 0-14

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Relative Survival Rates (SEER ^b)																				
1-year	81.4	85.0	87.1	85.7	86.0	88.8	88.3	89.3	91.0	91.1	88.4	90.5	90.4	92.8	91.1	91.0	91.3	92.3	92.0	91.3
2-year	71.2	75.7	78.2	76.3	77.2	80.4	79.8	81.7	82.3	84.0	82.0	84.6	84.4	86.2	84.6	84.0	85.2	85.7	86.7	
3-year	65.5	70.6	73.9	72.5	72.9	76.6	75.3	77.3	78.9	80.9	78.6	81.5	80.9	83.6	82.1	81.3	82.6	83.2		
4-year	62.1	67.4	70.7	71.2	70.9	73.5	72.8	75.0	76.0	78.7	77.8	78.8	78.3	80.5	80.3	78.6	80.7			
5-year	59.9	65.7	69.8	69.0	70.3	72.6	71.4	73.9	74.9	77.6	76.1	78.1	76.9	80.1	78.9	77.6				
6-year	58.2	64.5	68.5	68.1	69.0	72.2	70.3	73.1	74.3	76.1	75.7	77.9	75.8	79.3	78.1					
7-year	57.1	63.5	67.3	68.0	67.8	71.3	68.9	72.2	73.8	75.9	75.2	77.1	75.2	78.7						
8-year	56.4	62.8	66.2	67.7	67.8	70.7	67.9	71.8	73.0	75.8	74.5	76.8	74.3							
9-year	56.0	62.2	65.6	67.1	67.6	70.4	67.5	71.3	72.6	75.6	74.2	76.0								
10-year	55.7	61.7	64.9	67.0	67.0	70.1	67.0	70.9	72.5	75.5	74.2									
11-year	55.4	61.4	64.2	67.0	66.7	70.0	66.8	70.4	72.0	75.4										
12-year	55.0	60.9	63.9	66.3	66.6	69.8	66.6	70.2	71.8											
13-year	54.9	60.5	63.7	66.0	66.2	69.5	66.6	69.5												
14-year	54.5	60.2	63.6	64.8	66.2	69.0	66.4													
15-year	54.2	59.9	63.3	64.8	66.0	68.7														
16-year	53.8	59.6	63.2	64.5	65.6															
17-year	53.4	59.4	63.2	64.2																
18-year	53.2	59.0	63.2																	
19-year	52.9	58.8																		
20-year	52.7																			

^a Survival rates are relative rates expressed as percents.

^b Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table XXVIII-11
ALL SITES (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males and Females

Ages 0-19

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Relative Survival Rates (SEER ^b)																				
1-year	83.1	86.3	87.9	88.1	88.1	89.9	89.4	90.4	91.4	90.4	89.7	90.7	90.1	93.1	91.6	92.0	91.2	90.9	92.3	92.2
2-year	73.1	77.3	78.8	79.2	80.0	82.4	81.2	83.0	83.4	83.3	82.6	84.2	84.5	87.3	85.0	85.2	85.7	84.0	87.0	
3-year	68.1	72.3	75.3	75.8	75.8	78.2	77.1	78.5	79.7	80.2	79.5	80.7	81.2	85.0	81.8	82.4	82.8	81.7		
4-year	64.8	69.3	72.6	74.1	73.3	75.4	73.9	76.1	77.5	78.0	78.1	78.6	79.5	82.0	80.2	79.7	80.8			
5-year	62.8	67.6	71.6	72.3	72.8	74.6	72.6	74.8	76.2	76.8	76.4	77.9	78.1	81.4	78.5	78.4				
6-year	61.1	66.2	70.5	71.6	71.7	74.0	71.5	73.8	75.5	75.5	75.9	77.4	77.0	80.7	77.5					
7-year	60.1	65.4	69.3	71.3	70.6	73.2	70.5	72.9	74.8	75.1	75.5	76.8	76.4	80.2						
8-year	59.3	64.6	68.4	70.9	70.2	72.3	69.9	72.3	74.2	74.9	74.6	76.5	75.4							
9-year	58.8	63.9	67.9	70.4	69.6	72.1	69.4	71.8	73.8	74.8	74.3	75.7								
10-year	58.5	63.5	67.2	70.0	69.3	71.5	69.0	71.6	73.4	74.7	74.2									
11-year	58.1	63.1	66.6	69.9	69.0	71.4	68.9	70.9	72.8	74.7										
12-year	57.7	62.7	66.3	69.4	68.9	71.1	68.7	70.7	72.6											
13-year	57.6	62.3	66.0	68.9	68.6	71.0	68.6	70.1												
14-year	57.3	62.0	65.8	67.7	68.2	70.2	68.4													
15-year	57.0	61.6	65.7	67.5	67.7	70.1														
16-year	56.7	61.2	65.2	66.8	67.4															
17-year	56.3	60.9	65.1	66.6																
18-year	56.1	60.7	65.1																	
19-year	55.8	60.4																		
20-year	55.5																			

^a Survival rates are relative rates expressed as percents.

^b Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table XXVIII-12
 CHILDHOOD CANCER (Invasive, <20 Years old at diagnosis)

Estimated United States Cancer Prevalence Counts^a on January 1, 2003
 By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <13 ^e	0 to <28 ^e	>=28 ^f	Complete ^g
<u>Race/Sex</u>									
All Races ^b	57,723	47,688	41,411	35,310	30,062	131,069	227,872	+	+
Males	30,378	25,199	21,883	17,935	14,601	69,413	117,016	+	+
Females	27,345	22,489	19,528	17,375	15,461	61,656	110,856	+	+
White ^b	48,687	39,754	35,270	30,871	26,365	110,249	194,768	+	+
Males	25,649	21,010	18,833	15,739	12,931	58,570	100,428	+	+
Females	23,038	18,744	16,437	15,132	13,434	51,679	94,340	+	+
Black ^b	5,798	5,098	4,107	2,953	2,619	13,408	21,893	+	+
Males	2,965	2,611	2,046	1,435	1,146	6,854	10,748	+	+
Females	2,833	2,487	2,061	1,518	1,473	6,554	11,145	+	+
Asian/Pacific Islander ^c	1,897	1,548	+	+	+	4,254	+	+	+
Males	1,028	836	+	+	+	2,258	+	+	+
Females	869	712	+	+	+	1,996	+	+	+
Hispanic ^d	8,930	6,276	+	+	+	18,521	+	+	+
Males	4,780	3,388	+	+	+	10,057	+	+	+
Females	4,150	2,888	+	+	+	8,464	+	+	+

^a US 2003 cancer prevalence counts are based on 2003 cancer prevalence proportions from the SEER registries and 1/1/2003 US population estimates based on the average of 2002 and 2003 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

^{b c d} Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and Rural Georgia excluding Hawaii and Seattle.

^e Maximum limited-duration prevalence: 28 years for 1975-2003 SEER 9 data; 13 years for 1990-2003 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

^{f g} (f) Cases diagnosed more than 28 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (g) Complete prevalence is obtained by summing 0 to <28 and >=28.

- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

Table XXVIII-13
AGE-ADJUSTED RATES^a AND COUNTS FOR THE TOP 5 CANCER SITES^b BY SINGLE YEAR OF AGE AT DIAGNOSIS

SEER Cancer Incidence^c 2000-2003

Age 0			Age 1			Age 2		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	23.2	1003	All Sites	20.7	882	All Sites	23.7	998
Leukemia	4.5	196	Leukemia	6.3	267	Leukemia	10.5	443
Acute Lymphocytic Leukemia	1.9	84	Acute Lymphocytic Leukemia	4.0	169	Acute Lymphocytic Leukemia	9.3	393
Brain and ONS ^d	3.7	160	Brain and ONS ^d	4.1	176	Brain and ONS ^d	4.4	187
Soft Tissue	3.2	139	Kidney and Renal Pelvis	2.0	87	Kidney and Renal Pelvis	2.2	94
Eye and Orbit	2.5	109	Other Endocrine	1.8	77	Eye and Orbit	1.4	59
Other Endocrine	2.3	100	Eye and Orbit	1.6	69	Other Endocrine	1.2	52
Age 3			Age 4			Age 5		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	20.6	858	All Sites	17.1	716	All Sites	13.2	562
Leukemia	9.9	414	Leukemia	7.8	329	Leukemia	5.1	219
Acute Lymphocytic Leukemia	9.3	388	Acute Lymphocytic Leukemia	7.1	298	Acute Lymphocytic Leukemia	4.5	194
Brain and ONS ^d	3.6	148	Brain and ONS ^d	4.1	174	Brain and ONS ^d	3.6	155
Kidney and Renal Pelvis	2.0	85	Kidney and Renal Pelvis	1.1	47	Kidney and Renal Pelvis	0.9	39
Soft Tissue	1.4	57	Soft Tissue	1.0	43	Non-Hodgkin Lymphoma	0.8	36
Other Endocrine	1.0	41	Non-Hodgkin Lymphoma	0.6	24	Soft Tissue	0.7	30
Age 6			Age 7			Age 8		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	11.2	488	All Sites	10.7	473	All Sites	10.9	488
Leukemia	3.8	163	Leukemia	3.9	173	Leukemia	3.5	159
Acute Lymphocytic Leukemia	3.0	132	Acute Lymphocytic Leukemia	3.3	146	Acute Lymphocytic Leukemia	2.8	127
Brain and ONS ^d	3.6	158	Brain and ONS ^d	3.0	133	Brain and ONS ^d	3.3	148
Non-Hodgkin Lymphoma	0.8	35	Non-Hodgkin Lymphoma	0.6	26	Non-Hodgkin Lymphoma	1.2	53
Kidney and Renal Pelvis	0.6	25	Bones and Joints	0.5	24	Bones and Joints	0.6	26
Soft Tissue	0.6	24	Soft Tissue	0.5	21	Soft Tissue	0.4	20
Age 9			Age 10			Age 11		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	10.2	464	All Sites	9.8	453	All Sites	11.3	520
Leukemia	2.9	133	Brain and ONS ^d	2.4	112	Brain and ONS ^d	2.9	132
Acute Lymphocytic Leukemia	2.2	102	Leukemia	2.3	108	Leukemia	2.7	123
Brain and ONS ^d	2.5	113	Acute Lymphocytic Leukemia	1.6	76	Acute Lymphocytic Leukemia	1.9	89
Non-Hodgkin Lymphoma	1.3	58	Non-Hodgkin Lymphoma	1.1	51	Bones and Joints	1.1	50
Bones and Joints	0.8	37	Bones and Joints	0.9	41	Non-Hodgkin Lymphoma	1.0	47
Soft Tissue	0.6	28	Soft Tissue	0.7	32	Hodgkin Lymphoma	0.9	40

^a Rates are per 100,000 per year and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Cases are for the 17 SEER Areas over the time period 2000-2003.

^b Top 5 cancer sites were determined based on the 2000-2003 age-adjusted rate.

^c Cases are from the 17 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

^d ONS = Other Nervous System. IBD = Intrahepatic Bile Duct.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XXVIII-13 - continued
 AGE-ADJUSTED RATES^a AND COUNTS FOR THE TOP 5 CANCER SITES^b BY SINGLE YEAR OF AGE AT DIAGNOSIS

SEER Cancer Incidence^c 2000-2003

Age 12			Age 13			Age 14		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	12.3	558	All Sites	13.8	616	All Sites	15.3	667
Leukemia	3.1	143	Leukemia	3.0	133	Leukemia	3.1	133
Acute Lymphocytic Leukemia	2.0	92	Acute Lymphocytic Leukemia	2.2	96	Acute Lymphocytic Leukemia	2.0	87
Brain and ONS ^d	2.8	127	Brain and ONS ^d	2.5	112	Brain and ONS ^d	2.5	110
Bones and Joints	1.3	58	Bones and Joints	1.5	68	Hodgkin Lymphoma	1.7	75
Non-Hodgkin Lymphoma	1.0	47	Hodgkin Lymphoma	1.3	57	Bones and Joints	1.6	68
Hodgkin Lymphoma	1.0	44	Soft Tissue	1.3	56	Non-Hodgkin Lymphoma	1.5	67
Age 15			Age 16			Age 17		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	18.2	783	All Sites	19.6	836	All Sites	20.5	877
Leukemia	3.2	136	Leukemia	3.6	154	Leukemia	2.7	116
Acute Lymphocytic Leukemia	1.9	84	Acute Lymphocytic Leukemia	2.2	95	Acute Lymphocytic Leukemia	1.6	67
Hodgkin Lymphoma	2.2	96	Hodgkin Lymphoma	2.5	106	Hodgkin Lymphoma	2.7	114
Brain and ONS ^d	2.2	95	Brain and ONS ^d	2.2	93	Non-Hodgkin Lymphoma	2.0	87
Bones and Joints	1.9	81	Bones and Joints	2.0	84	Melanoma of the Skin	1.9	83
Non-Hodgkin Lymphoma	1.5	66	Non-Hodgkin Lymphoma	1.6	69	Testis	1.9	82
Age 18			Age 19					
	Rate	Cases		Rate	Cases			
All Sites	22.0	938	All Sites	24.8	1053			
Hodgkin Lymphoma	3.6	154	Hodgkin Lymphoma	3.7	159			
Leukemia	2.6	110	Thyroid	2.8	117			
Acute Lymphocytic Leukemia	1.5	62	Leukemia	2.7	116			
Testis	2.4	103	Acute Lymphocytic Leukemia	1.2	52			
Melanoma of the Skin	2.1	89	Testis	2.5	108			
Thyroid	2.0	85	Melanoma of the Skin	2.2	93			

^a Rates are per 100,000 per year and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Cases are for the 17 SEER Areas over the time period 2000-2003.

^b Top 5 cancer sites were determined based on the 2000-2003 age-adjusted rate.

^c Cases are from the 17 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

^d ONS = Other Nervous System. IBD = Intrahepatic Bile Duct.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XXVIII-14
AGE-ADJUSTED RATES^a AND DEATHS FOR THE TOP 5 CANCER SITES^b BY SINGLE YEAR OF AGE AT DEATH

U.S. Mortality^c 2000-2003

Age 0			Age 1			Age 2		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	1.9	307	All Sites	2.1	336	All Sites	2.6	406
Leukemia	0.7	114	Leukemia	0.8	122	Leukemia	1.0	149
Acute Lymphocytic Leukemia	0.3	42	Acute Lymphocytic Leukemia	0.2	37	Acute Lymphocytic Leukemia	0.3	47
Brain and ONS ^d	0.4	66	Brain and ONS ^d	0.6	98	Brain and ONS ^d	0.6	86
Other Endocrine	0.2	29	Other Endocrine	0.3	42	Other Endocrine	0.5	75
Soft Tissue	0.1	19	Liver & IBD ^d	0.1	21	Liver & IBD ^d	0.2	30
Liver & IBD ^d	0.1	16	Soft Tissue	-	-	Soft Tissue	0.1	19
Age 3			Age 4			Age 5		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.9	448	All Sites	2.9	444	All Sites	2.9	450
Leukemia	0.9	136	Brain and ONS ^d	0.9	132	Brain and ONS ^d	0.9	143
Acute Lymphocytic Leukemia	0.3	50	Leukemia	0.8	122	Leukemia	0.7	114
Brain and ONS ^d	0.7	106	Acute Lymphocytic Leukemia	0.3	50	Acute Lymphocytic Leukemia	0.4	61
Other Endocrine	0.6	95	Other Endocrine	0.5	76	Other Endocrine	0.5	83
Soft Tissue	0.1	21	Kidney and Renal Pelvis	0.2	24	Soft Tissue	0.2	31
Liver & IBD ^d	0.1	20	Liver & IBD ^d	0.1	21	Kidney and Renal Pelvis	0.2	27
Age 6			Age 7			Age 8		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.7	422	All Sites	2.5	403	All Sites	2.3	370
Brain and ONS ^d	1.0	161	Brain and ONS ^d	0.9	151	Brain and ONS ^d	0.8	123
Leukemia	0.7	114	Leukemia	0.8	126	Leukemia	0.7	109
Acute Lymphocytic Leukemia	0.4	60	Acute Lymphocytic Leukemia	0.4	68	Acute Lymphocytic Leukemia	0.4	68
Other Endocrine	0.3	54	Other Endocrine	0.3	46	Other Endocrine	0.3	48
Kidney and Renal Pelvis	0.2	32	Kidney and Renal Pelvis	0.1	20	Bones and Joints	0.1	21
Soft Tissue	-	-	Soft Tissue	0.1	16	Soft Tissue	0.1	19
Age 9			Age 10			Age 11		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.3	390	All Sites	2.5	422	All Sites	2.2	379
Leukemia	0.8	136	Brain and ONS ^d	0.8	139	Leukemia	0.7	120
Acute Lymphocytic Leukemia	0.4	74	Leukemia	0.7	120	Acute Lymphocytic Leukemia	0.4	62
Brain and ONS ^d	0.8	135	Acute Lymphocytic Leukemia	0.4	74	Brain and ONS ^d	0.7	117
Other Endocrine	0.2	38	Other Endocrine	0.3	44	Bones and Joints	0.2	36
Non-Hodgkin Lymphoma	0.1	18	Bones and Joints	0.2	38	Soft Tissue	0.2	29
Bones and Joints	0.1	16	Soft Tissue	0.1	25	Non-Hodgkin Lymphoma	0.1	23

^a Rates are per 100,000 per year and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Deaths are for the entire United States over the time period 2000-2003.

^b Top 5 cancer sites were determined based on the 2000-2003 age-adjusted rate.

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

^d ONS = Other Nervous System. IBD = Intrahepatic Bile Duct.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XXVIII-14 - continued
AGE-ADJUSTED RATES^a AND DEATHS FOR THE TOP 5 CANCER SITES^b BY SINGLE YEAR OF AGE AT DEATH

U.S. Mortality^c 2000-2003

<u>Age 12</u>			<u>Age 13</u>			<u>Age 14</u>		
	<u>Rate</u>	<u>Deaths</u>		<u>Rate</u>	<u>Deaths</u>		<u>Rate</u>	<u>Deaths</u>
All Sites	2.4	406	All Sites	2.8	467	All Sites	2.8	461
Leukemia	0.9	145	Leukemia	1.0	160	Leukemia	0.9	152
Acute Lymphocytic Leukemia	0.5	76	Acute Lymphocytic Leukemia	0.4	69	Acute Lymphocytic Leukemia	0.4	67
Brain and ONS ^d	0.6	109	Brain and ONS ^d	0.7	109	Brain and ONS ^d	0.6	102
Bones and Joints	0.3	50	Bones and Joints	0.4	65	Bones and Joints	0.4	70
Non-Hodgkin Lymphoma	0.1	18	Bones and Joints	0.2	38	Soft Tissue	0.2	29
Bones and Joints	0.1	16	Soft Tissue	0.1	25	Non-Hodgkin Lymphoma	0.1	23
<u>Age 15</u>			<u>Age 16</u>			<u>Age 17</u>		
	<u>Rate</u>	<u>Deaths</u>		<u>Rate</u>	<u>Deaths</u>		<u>Rate</u>	<u>Deaths</u>
All Sites	2.8	462	All Sites	3.5	559	All Sites	3.4	558
Leukemia	1.0	161	Leukemia	1.1	179	Leukemia	1.0	170
Acute Lymphocytic Leukemia	0.4	72	Acute Lymphocytic Leukemia	0.5	81	Acute Lymphocytic Leukemia	0.5	78
Brain and ONS ^d	0.6	90	Brain and ONS ^d	0.6	90	Brain and ONS ^d	0.5	87
Bones and Joints	0.4	61	Bones and Joints	0.5	81	Bones and Joints	0.5	80
Soft Tissue	0.2	38	Soft Tissue	0.3	50	Soft Tissue	0.3	49
Non-Hodgkin Lymphoma	0.2	38	Non-Hodgkin Lymphoma	0.2	36	Non-Hodgkin Lymphoma	0.3	42
<u>Age 18</u>			<u>Age 19</u>					
	<u>Rate</u>	<u>Deaths</u>		<u>Rate</u>	<u>Deaths</u>			
All Sites	3.9	631	All Sites	4.2	680			
Leukemia	1.1	182	Leukemia	1.2	195			
Acute Lymphocytic Leukemia	0.5	74	Acute Lymphocytic Leukemia	0.5	86			
Brain and ONS ^d	0.5	84	Bones and Joints	0.6	97			
Bones and Joints	0.5	78	Brain and ONS ^d	0.5	85			
Soft Tissue	0.4	62	Soft Tissue	0.4	61			
Non-Hodgkin Lymphoma	0.3	54	Non-Hodgkin Lymphoma	0.3	48			

^a Rates are per 100,000 per year and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Deaths are for the entire United States over the time period 2000-2003.

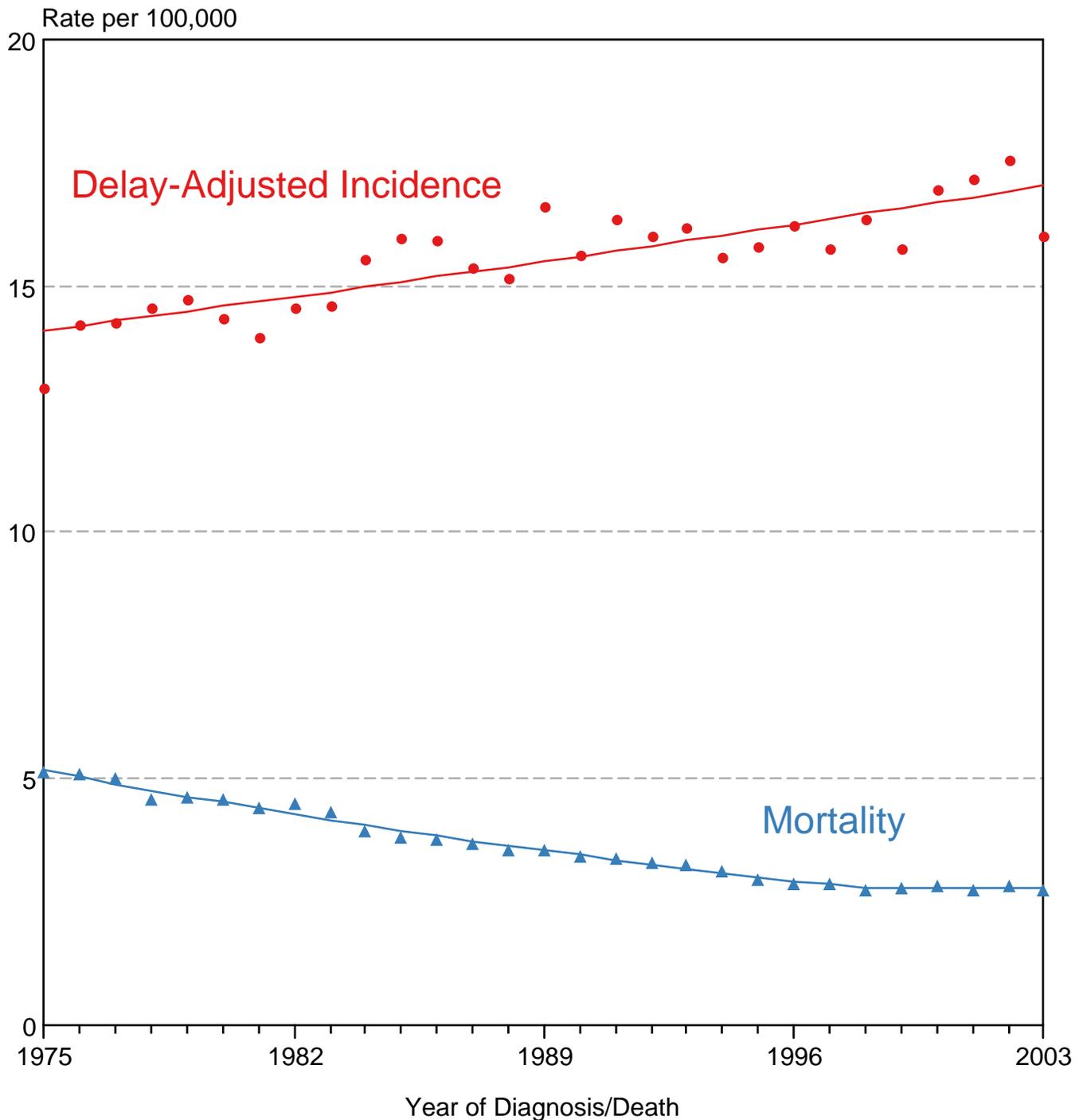
^b Top 5 cancer sites were determined based on the 2000-2003 age-adjusted rate.

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

^d ONS = Other Nervous System. IBD = Intrahepatic Bile Duct.

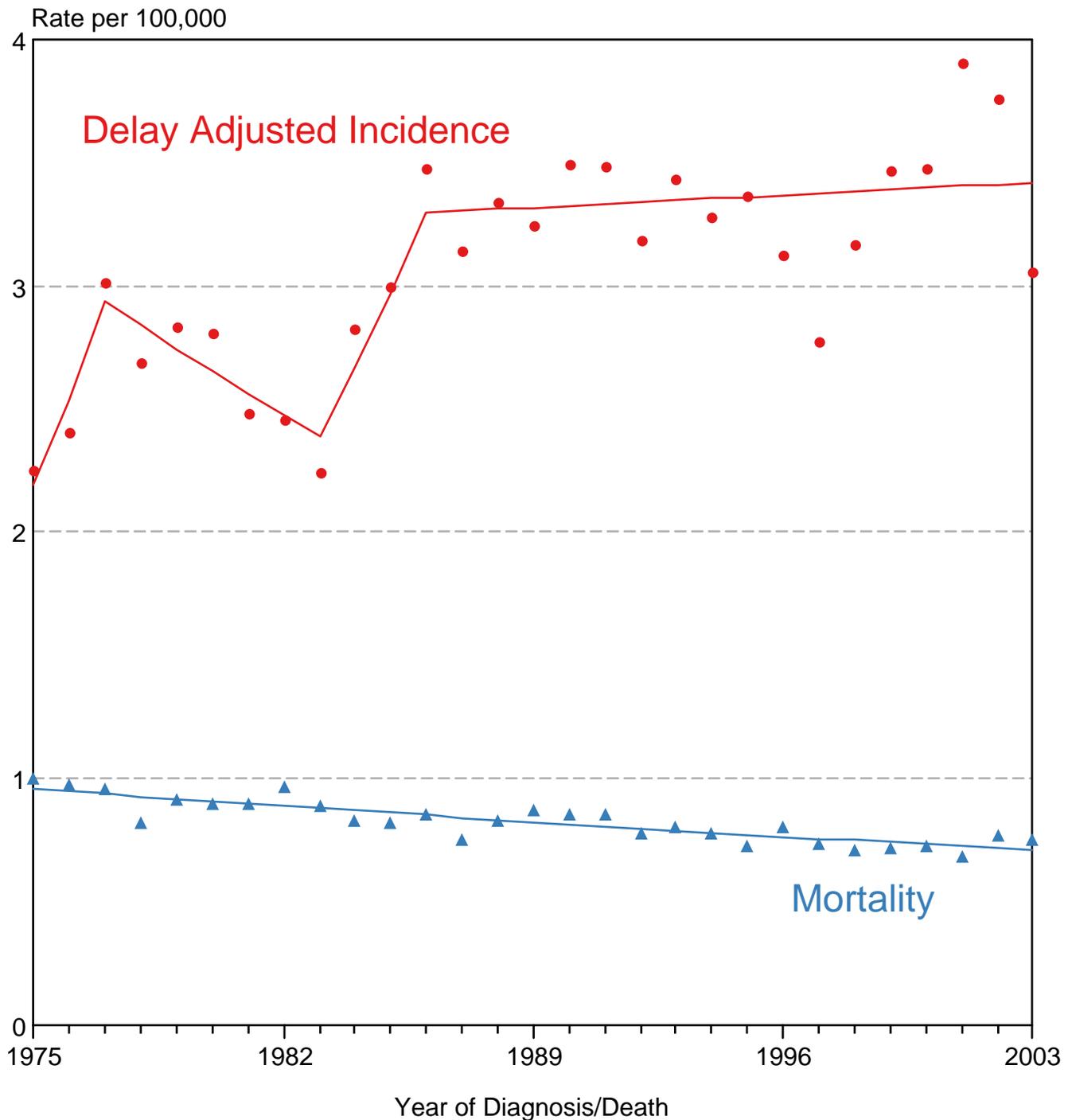
- Statistic not shown. Rate based on less than 16 cases for the time interval.

SEER Delay-Adjusted Incidence and US Mortality All Childhood Cancers, Under 20 Years of Age Both Sexes, All Races, 1975-2003



Source: SEER 9 areas and NCHS public use data file for the total US.
 Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
 Regression lines are calculated using the Joinpoint Regression Program Version 3.1, April 2006, National Cancer Institute.

SEER Delay-Adjusted Incidence and US Mortality Brain and CNS, Under 15 Years of Age Both Sexes, All Races, 1975-2003



Source: SEER 9 areas and NCHS public use data file for the total US.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Regression lines are calculated using the Joinpoint Regression Program Version 3.1, April 2006, National Cancer Institute.

SEER Incidence and US Death Rates*

All Cancer Sites, Ages <20, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2003 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2003

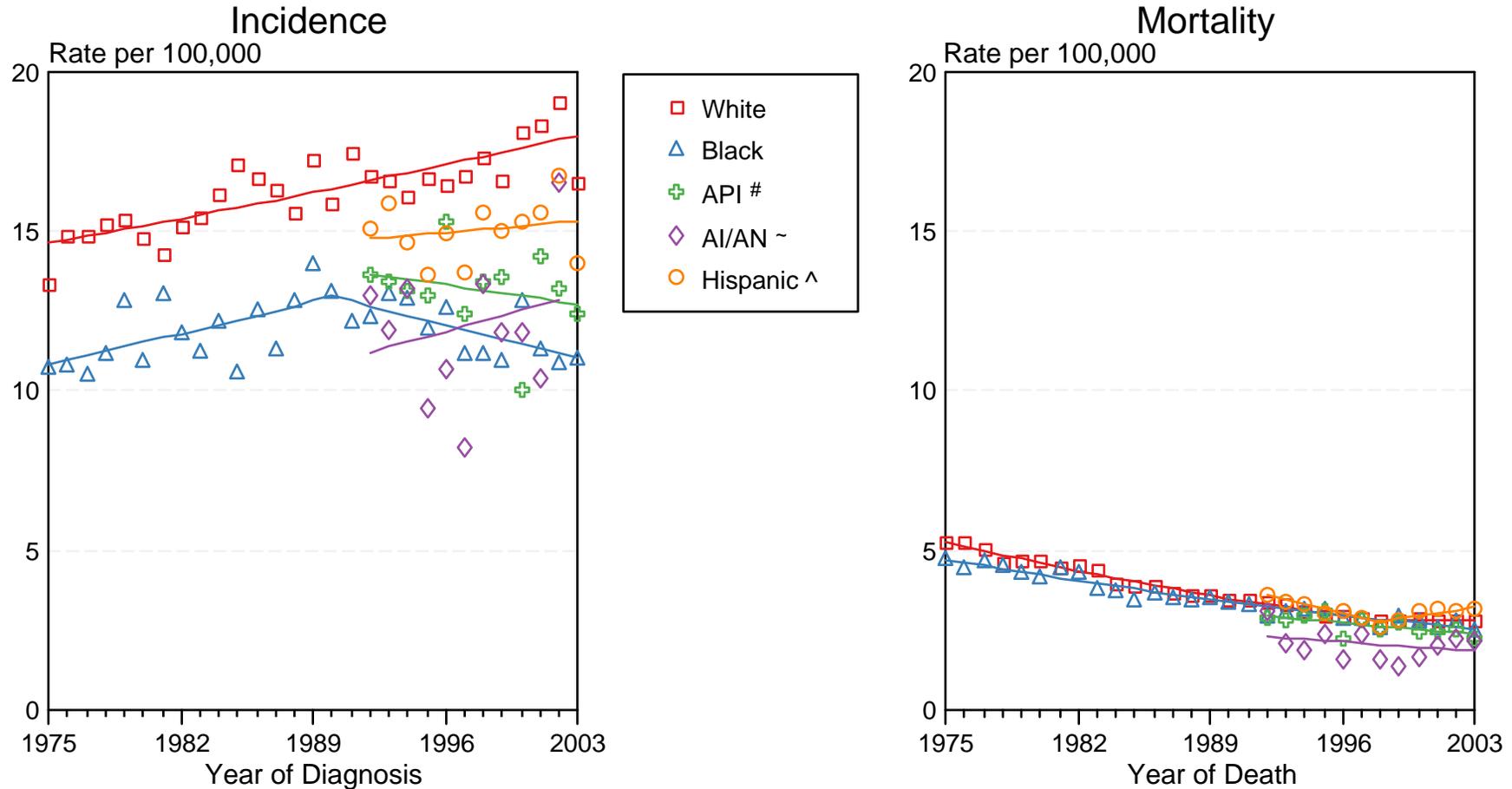


Figure XXVIII-3

Source: Incidence data for Whites and Blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from NCHS public use data file for the total US.

* Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Regression lines are calculated using the Joinpoint Regression Program Version 3.1, April 2006, National Cancer Institute.

API = Asian/Pacific Islander.

~ AI/AN = American Indian/Alaska Native. Incidence data for AI/AN include cases from Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta and the Alaska Native Registry for the time period 1992-2002. Mortality data are from the entire US for the time period 1992-2003.

^ Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from Hawaii, Seattle, and the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.