

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. Benign brain tumors(2004+) and myelodysplastic syndromes(2001-2005) are not included.

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, 2001-2005

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	15.1	16.1	14.1	2.5	2.7	2.3	16.7	17.8	15.6	2.7	3.0	2.4
Whites	15.9	17.0	14.8	2.5	2.7	2.4	17.7	18.9	16.4	2.8	3.1	2.5
Blacks	11.5	11.9	11.1	2.4	2.7	2.2	12.0	12.4	11.6	2.7	3.0	2.4
Bone & Joint	0.7	0.7	0.7	0.1	0.1	0.1	0.9	1.0	0.8	0.2	0.3	0.2
Brain & Other nervous	3.2	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	5.0	5.4	4.5	0.8	0.8	0.7	4.5	5.0	3.9	0.8	0.9	0.7
Acute lymphocytic	3.9	4.3	3.6	0.4	0.4	0.3	3.4	3.8	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	1.4	0.8	0.1	0.2	0.1
Soft tissue	1.1	1.1	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 US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. 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, 1975-2005

By Primary Cancer Site

All Races, Males and Females

Year of Diagnosis

<u>Age/Site</u>	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
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Ages 0-14

All Sites

All Races	11.5	12.9	14.5	14.2	15.1	13.4	14.9	13.9	14.0	14.7	14.0	15.3	14.4	15.3	15.6	15.2	13.0	14.9	15.9
Whites	12.0	13.1	15.5	14.3	16.2	13.9	15.2	14.5	14.8	14.9	14.7	16.2	15.5	16.6	16.8	16.6	13.8	15.6	16.9
Blacks	8.6	11.1	10.1	12.3	11.6	12.0	12.4	12.2	11.3	11.6	11.2	10.0	10.3	11.8	10.6	11.1	9.8	13.5	12.5
Bone & Joint	0.5	0.7	0.8	0.7	0.9	0.5	0.6	0.8	0.8	0.5	0.9	0.6	0.6	0.6	0.6	0.6	0.7	0.5	0.6
Brain & Other nervous	2.3	2.8	3.0	3.5	3.5	3.2	3.4	3.3	3.3	3.1	2.7	3.2	3.4	3.4	3.8	3.6	3.0	3.2	3.2
Hodgkin lymphoma	0.7	0.5	0.7	0.7	0.6	0.5	0.6	0.5	-	0.6	0.6	0.6	0.4	0.6	0.5	0.5	0.4	0.5	0.5
Kidney & Renal pelvis	0.7	0.8	0.9	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	0.7	0.9
Leukemia	3.3	4.0	4.6	4.4	4.6	4.0	4.2	3.7	4.4	4.6	4.2	4.8	4.7	4.6	4.4	4.8	4.0	5.0	5.1
Acute lymphocytic	2.2	3.1	3.5	3.4	3.5	3.2	3.1	2.9	3.6	3.5	3.5	3.9	3.6	3.5	3.5	4.0	3.1	3.7	4.0
Non-Hodgkin lymphoma	1.0	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	0.7	1.1
Soft tissue	0.9	0.9	0.9	0.7	1.1	0.8	0.6	0.9	0.9	1.1	1.0	1.1	0.9	1.0	1.2	1.0	0.8	1.0	1.5

Ages 0-19

All Sites

All Races	12.9	14.3	15.9	15.6	16.4	16.0	16.1	15.5	15.7	16.1	15.6	16.3	15.6	16.8	16.9	17.2	15.6	16.2	17.2
Whites	13.4	14.8	17.0	16.0	17.5	16.9	16.6	16.1	16.7	16.5	16.7	17.4	16.7	18.2	18.3	19.1	16.7	17.3	18.5
Blacks	10.8	10.9	10.5	13.2	12.3	12.3	13.0	13.0	12.1	12.6	11.1	11.3	10.9	12.8	11.3	10.9	11.0	13.3	12.7
Bone & Joint	0.7	0.9	1.0	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	0.8	0.7	0.8
Brain & Other nervous	2.1	2.5	2.7	3.2	3.0	3.3	3.0	2.9	3.0	3.0	2.5	2.8	3.0	3.1	3.4	3.3	2.9	2.9	2.8
Hodgkin lymphoma	1.5	1.2	1.4	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	1.0	1.1	0.9
Kidney & Renal pelvis	0.5	0.6	0.7	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	0.6	0.7
Leukemia	3.0	3.5	4.0	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	4.4	4.5
Acute lymphocytic	1.9	2.5	2.9	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	3.2	3.3
Non-Hodgkin lymphoma	1.0	0.8	1.0	1.0	1.1	1.0	0.9	1.2	1.1	1.0	1.1	1.0	0.9	1.3	1.1	1.2	1.3	1.1	1.3
Soft tissue	0.8	0.9	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	0.8	1.0	1.5

^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, 1975-2005

By Primary Cancer Site

All Races, Males and Females

Year of Death

<u>Age/Site</u>	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<u>Ages 0-14</u>																			
All Sites	4.9	4.3	3.6	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	2.5	2.4
Bone & Joint	0.2	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	0.9	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7
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
Leukemia	2.1	1.7	1.4	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	0.7	0.7
Acute lymphocytic	1.2	0.9	0.8	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	0.3	0.3
Non-Hodgkin lymphoma	0.4	0.3	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
Soft tissue	0.1	0.2	0.1	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	0.2	0.1
<u>Ages 0-19</u>																			
All Sites	5.1	4.6	3.8	3.4	3.4	3.3	3.3	3.1	3.0	2.9	2.9	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7
Bone & Joint	0.3	0.3	0.3	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	0.2	0.2	0.3
Brain & Other nervous	0.9	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	0.7	0.7
Hodgkin lymphoma	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	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
Leukemia	2.0	1.8	1.4	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	0.8	0.8
Acute lymphocytic	1.0	0.9	0.7	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	0.4	0.3
Non-Hodgkin lymphoma	0.4	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	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

^a US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. 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, 1975-2005

By Primary Cancer Site

Whites, Males and Females

Year of Death

<u>Age/Site</u>	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<u>Ages 0-14</u>																			
All Sites	5.0	4.4	3.7	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	2.5	2.4
Bone & Joint	0.2	0.2	0.2	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	0.1	0.1
Brain & Other nervous	1.0	0.9	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	0.7	0.7
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
Leukemia	2.3	1.8	1.4	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	0.8	0.7
Acute lymphocytic	1.2	1.0	0.8	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	0.4	0.3
Non-Hodgkin lymphoma	0.3	0.3	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
Soft tissue	0.1	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	0.2	0.1	0.2	0.1
<u>Ages 0-19</u>																			
All Sites	5.3	4.7	3.9	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	2.8	2.7
Bone & Joint	0.3	0.3	0.3	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	0.2	0.2	0.3
Brain & Other nervous	0.9	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	0.7	0.7
Hodgkin lymphoma	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	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
Leukemia	2.1	1.8	1.4	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8
Acute lymphocytic	1.1	1.0	0.7	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	0.4	0.4
Non-Hodgkin lymphoma	0.4	0.3	0.3	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	0.1	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

^a US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. 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, 1975-2005

By Primary Cancer Site

Blacks, Males and Females

Year of Death

<u>Age/Site</u>	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<u>Ages 0-14</u>																			
All Sites	4.5	3.8	3.3	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	2.4	2.5
Bone & Joint	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	
Brain & Other nervous	0.9	0.9	0.6	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	0.7	0.7
Hodgkin lymphoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kidney & Renal pelvis	-	-	0.2	-	-	-	0.2	-	-	-	0.2	-	-	-	0.2	-	-	-	
Leukemia	1.6	1.2	1.2	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	0.6	0.6
Acute lymphocytic	0.8	0.6	0.7	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	0.2	0.2
Non-Hodgkin lymphoma	0.4	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Soft tissue	-	-	-	0.3	-	-	0.2	0.3	-	-	0.2	0.2	0.2	-	0.2	0.2	-	0.2	-
<u>Ages 0-19</u>																			
All Sites	4.8	4.2	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	2.8	2.6
Bone & Joint	0.4	0.3	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	0.3	0.2
Brain & Other nervous	0.9	0.8	0.6	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	0.6	0.6
Hodgkin lymphoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kidney & Renal pelvis	0.2	-	0.2	-	-	-	0.1	-	-	-	0.1	0.1	-	0.1	0.2	-	-	-	
Leukemia	1.6	1.4	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	0.7	0.7
Acute lymphocytic	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Non-Hodgkin lymphoma	0.4	0.3	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	0.1	0.1
Soft tissue	0.2	0.2	0.2	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	0.3	0.2	0.2

^a US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. 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

TRENDS IN SEER INCIDENCE^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO THREE JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DIAGNOSIS

Males and Females

	Joinpoint Trend 1		Joinpoint Trend 2		Joinpoint Trend 3		Joinpoint Trend 4		AAPC ^b	
	Years	APC	Years	APC	Years	APC	Years	APC	1996-2005	2001-2005
Ages 0-14										
All Sites										
All Races	1975-2005	0.6*							0.6*	0.6*
Whites	1975-2005	0.7*							0.7*	0.7*
Blacks	1975-2005	0.3							0.3	0.3
Bone & Joint	1975-1979	12.4	1979-2005	-0.5					-0.5	-0.5
Brain & Other nervous	1975-1977	15.6	1977-1983	-3.3	1983-1986	11.6	1986-2005	-0.1	-0.1	-0.1
Hodgkin lymphoma	1975-2005	-1.3*							-1.3*	-1.3*
Kidney & Renal pelvis	1975-2005	-0.1							-0.1	-0.1
Leukemia	1975-2005	0.7*							0.7*	0.7*
Acute lymphocytic	1975-2005	0.9*							0.9*	0.9*
Non-Hodgkin lymphoma	1975-2005	0.5							0.5	0.5
Soft tissue	1975-2005	1.4*							1.4*	1.4*
Ages 0-19										
All Sites										
All Races	1975-2005	0.6*							0.6*	0.6*
Whites	1975-2005	0.7*							0.7*	0.7*
Blacks	1975-1989	1.1	1989-2005	-0.5					-0.5	-0.5
Bone & Joint	1975-2005	0.1							0.1	0.1
Brain & Other nervous	1975-1977	14.4	1977-1983	-3.2	1983-1986	11.2	1986-2005	-0.2	-0.2	-0.2
Hodgkin lymphoma	1975-2005	-1.1*							-1.1*	-1.1*
Kidney & Renal pelvis	1975-2005	0.1							0.1	0.1
Leukemia	1975-2005	0.8*							0.8*	0.8*
Acute lymphocytic	1975-2005	0.9*							0.9*	0.9*
Non-Hodgkin lymphoma	1975-2005	0.9*							0.9*	0.9*
Soft tissue	1975-2005	1.4*							1.4*	1.4*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005.
The APC/AAPC is significantly different from zero (p<.05).

^a^b^{*}

Table XXVIII-6a

TRENDS IN SEER INCIDENCE^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO FOUR JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DIAGNOSIS

Males and Females

	Joinpoint Trend 1		Joinpoint Trend 2		Joinpoint Trend 3		Joinpoint Trend 4		Joinpoint Trend 5		AAPC ^c 2001-2005
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	
<u>Ages 0-14</u>											
All Sites											
All Races	1975-2005	0.6*									0.6*
Whites	1975-2005	0.7*									0.7*
Blacks	1975-2005	0.3									0.3
Bone & Joint	1975-1979	12.4	1979-2005	-0.5							-0.5
Brain & Other nervous	1975-1983	-0.4	1983-1986	9.3	1986-2005	-0.1					-0.1
Hodgkin lymphoma	1975-2005	-1.3*									-1.3*
Kidney & Renal pelvis	1975-2005	-0.1									-0.1
Leukemia	1975-2005	0.7*									0.7*
Acute lymphocytic	1975-2005	0.9*									0.9*
Non-Hodgkin lymphoma	1975-2005	0.5									0.5
Soft tissue	1975-2005	1.4*									1.4*
<u>Ages 0-19</u>											
All Sites											
All Races	1975-2005	0.6*									0.6*
Whites	1975-2005	0.7*									0.7*
Blacks	1975-2005	0.2									0.2
Bone & Joint	1975-2005	0.1									0.1
Brain & Other nervous	1975-1977	14.4	1977-1983	-3.2	1983-1986	11.2	1986-2005	-0.2			-0.2
Hodgkin lymphoma	1975-2005	-1.1*									-1.1*
Kidney & Renal pelvis	1975-2005	0.1									0.1
Leukemia	1975-2005	0.8*									0.8*
Acute lymphocytic	1975-2005	0.9*									0.9*
Non-Hodgkin lymphoma	1975-2005	0.9*									0.9*
Soft tissue	1975-2005	1.4*									1.4*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005.

The APC/AAPC is significantly different from zero ($p<.05$).

^a^b^{*}

Table XXVIII-7

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO THREE JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

All Races, Both Sexes

	Joinpoint Trend 1		Joinpoint Trend 2		Joinpoint Trend 3		Joinpoint Trend 4		AAPC ^b	
	Years	APC	Years	APC	Years	APC	Years	APC	1996-2005	2001-2005
<u>Ages 0-14</u>										
All Sites	1975-1998	-2.9*	1998-2005	-0.2					-0.8*	-0.2
Bone & Joint	1975-1991	-3.4*	1991-2005	0.7					0.7	0.7
Brain & Other nervous	1975-2005	-1.0*							-1.0*	-1.0*
Hodgkin lymphoma	1975-2005	-4.6*							-4.6*	-4.6*
Kidney & Renal pelvis	1975-1994	-3.9*	1994-2005	0.2					0.2	0.2
Leukemia	1975-1998	-4.0*	1998-2005	-1.6					-2.1*	-1.6
Acute lymphocytic	1975-1998	-5.0*	1998-2005	-1.1					-2.0	-1.1
Non-Hodgkin lymphoma	1975-2005	-4.9*							-4.9*	-4.9*
Soft tissue	1975-1977	25.5	1977-2005	-1.5*					-1.5*	-1.5*
<u>Ages 0-19</u>										
All Sites	1975-1997	-2.7*	1997-2005	-0.6					-0.9*	-0.6
Bone & Joint	1975-1990	-3.2*	1990-2005	0.6					0.6	0.6
Brain & Other nervous	1975-2005	-1.0*							-1.0*	-1.0*
Hodgkin lymphoma	1975-2005	-4.6*							-4.6*	-4.6*
Kidney & Renal pelvis	1975-1993	-3.7*	1993-2005	-0.2					-0.2	-0.2
Leukemia	1975-1998	-3.5*	1998-2005	-1.5*					-1.9*	-1.5*
Acute lymphocytic	1975-1998	-4.3*	1998-2005	-1.2					-1.9*	-1.2
Non-Hodgkin lymphoma	1975-2005	-4.0*							-4.0*	-4.0*
Soft tissue	1975-1979	9.2*	1979-2005	-1.1*					-1.1*	-1.1*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005. The APC/AAPC is significantly different from zero (p<.05).

a

b

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Table XXVIII-7 - continued

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO THREE JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

Whites, Both Sexes

	Joinpoint Trend 1		Joinpoint Trend 2		Joinpoint Trend 3		Joinpoint Trend 4		AAPC ^b	
	Years	APC	Years	APC	Years	APC	Years	APC	1996-2005	2001-2005
<u>Ages 0-14</u>										
All Sites	1975-1998	-2.9*	1998-2005	-0.2					-0.8	-0.2
Bone & Joint	1975-1996	-2.6*	1996-2005	2.3					2.3	2.3
Brain & Other nervous	1975-2005	-1.0*							-1.0*	-1.0*
Hodgkin lymphoma	1975-2005	-4.5*							-4.5*	-4.5*
Kidney & Renal pelvis	1975-1995	-3.8*	1995-2005	1.0					1.0	1.0
Leukemia	1975-1984	-5.1*	1984-2005	-3.3*					-3.3*	-3.3*
Acute lymphocytic	1975-1991	-5.5*	1991-2005	-2.9*					-2.9*	-2.9*
Non-Hodgkin lymphoma	1975-2005	-5.0*							-5.0*	-5.0*
Soft tissue	1975-1979	12.7*	1979-1995	-2.8*	1995-2005	0.6			0.6	0.6
<u>Ages 0-19</u>										
All Sites	1975-1997	-2.7*	1997-2005	-0.5					-0.8*	-0.5
Bone & Joint	1975-1990	-2.8*	1990-2005	0.4					0.4	0.4
Brain & Other nervous	1975-2005	-1.0*							-1.0*	-1.0*
Hodgkin lymphoma	1975-2005	-4.7*							-4.7*	-4.7*
Kidney & Renal pelvis	1975-1993	-3.7*	1993-2005	0.1					0.1	0.1
Leukemia	1975-1998	-3.7*	1998-2005	-1.2					-1.8*	-1.2
Acute lymphocytic	1975-1996	-4.5*	1996-2005	-1.4					-1.4	-1.4
Non-Hodgkin lymphoma	1975-2005	-4.1*							-4.1*	-4.1*
Soft tissue	1975-1979	10.2*	1979-2005	-1.1*					-1.1*	-1.1*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005. The APC/AAPC is significantly different from zero (p<.05).

a

b

*

Table XXVIII-7 - continued

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO THREE JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

Blacks, Both Sexes

	Joinpoint Trend 1		Joinpoint Trend 2		Joinpoint Trend 3		Joinpoint Trend 4		AAPC ^b	
	Years	APC	Years	APC	Years	APC	Years	APC	1996-2005	2001-2005
<u>Ages 0-14</u>										
All Sites	1975-2000	-2.6*	2000-2005	1.4					-0.4	1.4
Bone & Joint	1975-1987	-6.4*	1987-2005	1.5					1.5	1.5
Brain & Other nervous	1975-2005	-1.1*							-1.1*	-1.1*
Hodgkin lymphoma		-								
Kidney & Renal pelvis	1975-2005	-3.0*							-3.0*	-3.0*
Leukemia	1975-2005	-3.4*							-3.4*	-3.4*
Acute lymphocytic	1975-1983	-1.1	1983-2005	-5.9*					-5.9*	-5.9*
Non-Hodgkin lymphoma	1975-2005	-4.7*							-4.7*	-4.7*
Soft tissue	1975-2005	-1.3*							-1.3*	-1.3*
<u>Ages 0-19</u>										
All Sites	1975-2005	-2.1*							-2.1*	-2.1*
Bone & Joint	1975-1987	-5.8*	1987-2005	1.1					1.1	1.1
Brain & Other nervous	1975-2005	-1.0*							-1.0*	-1.0*
Hodgkin lymphoma		-								
Kidney & Renal pelvis	1975-2005	-2.7*							-2.7*	-2.7*
Leukemia	1975-2005	-2.8*							-2.8*	-2.8*
Acute lymphocytic	1975-1982	0.4	1982-2005	-5.0*					-5.0*	-5.0*
Non-Hodgkin lymphoma	1975-2005	-3.4*							-3.4*	-3.4*
Soft tissue	1975-2005	-0.8							-0.8*	-0.8*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005. The APC/AAPC is significantly different from zero (p<.05).
 - Trend could not be calculated. At least one diagnosis year had a zero case count.

a

b

*

-

Table XXVIII-7a

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO FOUR JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

All Races, Both Sexes

	Joinpoint Trend 1 Years	Joinpoint Trend 1 APC	Joinpoint Trend 2 Years	Joinpoint Trend 2 APC	Joinpoint Trend 3 Years	Joinpoint Trend 3 APC	Joinpoint Trend 4 Years	Joinpoint Trend 4 APC	Joinpoint Trend 5 Years	Joinpoint Trend 5 APC	AAPC ^c 2001-2005
Ages 0-14											
All Sites	1975-1998	-2.9*	1998-2005	-0.2							-0.2
Bone & Joint	1975-1991	-3.4*	1991-2005	0.7							0.7
Brain & Other nervous	1975-2005	-1.0*									-1.0*
Hodgkin lymphoma	1975-2005	-4.6*									-4.6*
Kidney & Renal pelvis	1975-1994	-3.9*	1994-2005	0.2							0.2
Leukemia	1975-1998	-4.0*	1998-2005	-1.6							-1.6
Acute lymphocytic	1975-1998	-5.0*	1998-2005	-1.1							-1.1
Non-Hodgkin lymphoma	1975-2005	-4.9*									-4.9*
Soft tissue	1975-1977	25.5	1977-2005	-1.5*							-1.5*
Ages 0-19											
All Sites	1975-1997	-2.7*	1997-2005	-0.6							-0.6
Bone & Joint	1975-1990	-3.2*	1990-2005	0.6							0.6
Brain & Other nervous	1975-2005	-1.0*									-1.0*
Hodgkin lymphoma	1975-2005	-4.6*									-4.6*
Kidney & Renal pelvis	1975-1993	-3.7*	1993-2005	-0.2							-0.2
Leukemia	1975-1998	-3.5*	1998-2005	-1.5*							-1.5*
Acute lymphocytic	1975-1982	-2.9*	1982-1986	-6.8*	1986-1999	-4.0*	1999-2003	1.4	2003-2005	-10.2	-4.6
Non-Hodgkin lymphoma	1975-2005	-4.0*									-4.0*
Soft tissue	1975-1979	9.2*	1979-2005	-1.1*							-1.1*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005.
The APC/AAPC is significantly different from zero (p<.05).

^a^b^{*}

Table XXVIII-7a - continued

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO FOUR JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

Whites, Both Sexes

	Joinpoint Trend 1 Years	Joinpoint Trend 1 APC	Joinpoint Trend 2 Years	Joinpoint Trend 2 APC	Joinpoint Trend 3 Years	Joinpoint Trend 3 APC	Joinpoint Trend 4 Years	Joinpoint Trend 4 APC	Joinpoint Trend 5 Years	Joinpoint Trend 5 APC	AAPC ^c 2001-2005
Ages 0-14											
All Sites	1975-1998	-2.9*	1998-2005	-0.2							-0.2
Bone & Joint	1975-1996	-2.6*	1996-2005	2.3							2.3
Brain & Other nervous	1975-2005	-1.0*									-1.0*
Hodgkin lymphoma	1975-2005	-4.5*									-4.5*
Kidney & Renal pelvis	1975-1995	-3.8*	1995-2005	1.0							1.0
Leukemia	1975-1984	-5.1*	1984-2005	-3.3*							-3.3*
Acute lymphocytic	1975-1991	-5.5*	1991-2005	-2.9*							-2.9*
Non-Hodgkin lymphoma	1975-2005	-5.0*									-5.0*
Soft tissue	1975-1979	12.7*	1979-1995	-2.8*	1995-2005	0.6					0.6
Ages 0-19											
All Sites	1975-1997	-2.7*	1997-2005	-0.5							-0.5
Bone & Joint	1975-1990	-2.8*	1990-2005	0.4							0.4
Brain & Other nervous	1975-2005	-1.0*									-1.0*
Hodgkin lymphoma	1975-2005	-4.7*									-4.7*
Kidney & Renal pelvis	1975-1993	-3.7*	1993-2005	0.1							0.1
Leukemia	1975-1998	-3.7*	1998-2005	-1.2							-1.2
Acute lymphocytic	1975-1982	-3.2*	1982-1986	-7.1*	1986-1999	-3.7*	1999-2003	1.8	2003-2005	-9.3	-3.9
Non-Hodgkin lymphoma	1975-2005	-4.1*									-4.1*
Soft tissue	1975-1979	10.2*	1979-2005	-1.1*							-1.1*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005.
The APC/AAPC is significantly different from zero ($p<.05$).

^a^b^{*}

Table XXVIII-7a - continued

TRENDS IN U.S. MORTALITY^a USING THE JOINPOINT REGRESSION PROGRAM, 1975-2005
WITH UP TO FOUR JOINPOINTS BY PRIMARY CANCER SITE AND AGE AT DEATH

Blacks, Both Sexes

	Joinpoint Trend 1 Years	Joinpoint Trend 1 APC	Joinpoint Trend 2 Years	Joinpoint Trend 2 APC	Joinpoint Trend 3 Years	Joinpoint Trend 3 APC	Joinpoint Trend 4 Years	Joinpoint Trend 4 APC	Joinpoint Trend 5 Years	Joinpoint Trend 5 APC	AAPC ^c 2001-2005
Ages 0-14											
All Sites	1975-2000	-2.6*	2000-2005	1.4							1.4
Bone & Joint	1975-1987	-6.4*	1987-2005	1.5							1.5
Brain & Other nervous	1975-2005	-1.1*									-1.1*
Hodgkin lymphoma		-									
Kidney & Renal pelvis	1975-2005	-3.0*									-3.0*
Leukemia	1975-2005	-3.4*									-3.4*
Acute lymphocytic	1975-2005	-4.8*									-4.8*
Non-Hodgkin lymphoma	1975-2005	-4.7*									-4.7*
Soft tissue	1975-2005	-1.3*									-1.3*
Ages 0-19											
All Sites	1975-2005	-2.1*									-2.1*
Bone & Joint	1975-1987	-5.8*	1987-2005	1.1							1.1
Brain & Other nervous	1975-2005	-1.0*									-1.0*
Hodgkin lymphoma		-									
Kidney & Renal pelvis	1975-2005	-2.7*									-2.7*
Leukemia	1975-2005	-2.8*									-2.8*
Acute lymphocytic	1975-1982	0.4	1982-2005	-5.0*							-5.0*
Non-Hodgkin lymphoma	1975-2005	-3.4*									-3.4*
Soft tissue	1975-2005	-0.8									-0.8*

Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2005.

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

a

b

*

-

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

Trend could not be calculated. At least one diagnosis year had a zero case count.

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	1996-2004
All Sites								
All Races	58.1	62.6	66.9	68.2	71.4	75.7	77.3	80.0 ^a
Whites	58.1	63.1	67.6	70.0	72.2	76.6	78.2	81.3 ^a
Blacks	57.3	57.7	62.2	56.6	65.3	71.0	72.8	74.1 ^a
Bone & Joint	50.6 ^b	48.7	56.8 ^b	57.9 ^b	66.8 ^b	66.8	74.1	70.6 ^a
Brain & ONS	56.9	57.5	56.2	61.7	63.9	64.3	70.3	73.7 ^a
Hodgkin lymphoma	80.5	87.7	88.0	90.9	87.1	96.8	94.6	95.9 ^a
Leukemia	50.3	58.3	63.0	63.8	71.0	75.4	75.9	82.1 ^a
Acute lymphocytic	57.6	66.1	71.4	72.5	77.8	83.0	83.8	88.1 ^a
Acute myeloid	18.8	25.8	26.7 ^b	30.5 ^b	37.1 ^b	41.0	41.7 ^b	55.2 ^a
Neuroblastoma	52.4	56.9	54.5	52.3	62.0	76.3	67.3	69.7 ^a
Non-Hodgkin lymphoma	43.1	52.7	66.9	70.3	70.7	76.1	80.6	86.1 ^a
Soft tissue	61.0	74.9	69.2	73.0	65.4	79.7	76.5	74.4 ^a
Wilms' tumor	73.1	79.0	86.6	90.7	92.1	91.9	91.6	92.2 ^a

Site	Ages 0-19							
	1975-1977	1978-1980	1981-1983	1984-1986	1987-1989	1990-1992	1993-1995	1996-2004
All Sites								
All Races	61.7	65.3	68.2	70.6	73.4	76.2	77.7	80.1 ^a
Whites	61.5	65.8	69.1	72.4	74.9	77.5	78.5	81.4 ^a
Blacks	59.8	60.0	62.4	58.2	64.3	68.6	73.8	73.5 ^a
Bone & Joint	50.8	48.4	51.2	56.6	64.0	68.4	68.7	67.6 ^a
Brain & ONS	58.8	57.9	58.0	63.9	65.9	66.3	71.3	74.6 ^a
Hodgkin lymphoma	86.0	88.7	85.5	90.9	89.0	94.3	93.9	95.3 ^a
Leukemia	45.5	53.5	58.1	60.4	67.5	71.2	72.0	77.5 ^a
Acute lymphocytic	54.0	62.3	67.2	70.1	75.0	79.7	81.3	84.4 ^a
Acute myeloid	18.7	26.2	26.4	31.4	37.6	41.0	39.4	51.4 ^a
Neuroblastoma	52.7	57.0	53.4	52.5	60.6	75.9	67.3	69.4 ^a
Non-Hodgkin lymphoma	44.6	53.4	63.8	67.7	70.4	72.2	77.8	83.3 ^a
Soft tissue	65.2	69.3	68.2	72.7	67.3	69.6	74.1	72.1 ^a
Wilms' tumor	72.6	78.4	86.7	91.0	92.1	91.3	91.6	92.3 ^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 2005.

^a The difference in rates between 1975-1977 and 1996-2004 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	
	2001-2005 Num Cases	1975-2005 Rate	1975-1989 APC	1990-2005 APC	2001-2005 Num Deaths	1975-2005 Rate	1975-1989 APC	1990-2005 APC	1975-1977	1996-2004		
<u>Ages 0-4</u>												
All Sites	5,742	21.4	0.8*	1.3*	0.5	2,354	2.4	-2.8*	-2.8*	-2.3*	57.3	80.8 ^c
Soft tissue	468	1.7	1.3*	0.9	3.4*	121	0.1	-1.9*	-0.1	-1.0	61.1 ^d	73.7 ^c
Kidney and Renal pelvis	478	1.8	0.0	0.7	-0.7	96	0.1	-3.5*	-5.9*	0.2 [#]	71.8	91.9 ^c
Eye and Orbit	343	1.3	0.5	1.1	-1.1	32	0.0	-	-	-	87.1 ^d	95.0 ^c
Brain and Other nervous	1,046	3.9	1.2*	3.6*	0.3 [#]	587	0.6	-1.4*	-1.4*	-2.2*	52.5	70.6 ^c
Other endocrine	380	1.4	-	-	-	389	0.4	-	-	-	35.7 ^d	65.8 ^c
Leukemia	2,170	8.1	0.9*	1.1*	1.1	753	0.8	-3.2*	-4.0*	-2.5* [#]	55.4	85.7 ^c
Acute lymphocytic	1,736	6.5	0.9*	1.6*	1.0	254	0.3	-4.5*	-5.8*	-2.3* [#]	63.1	91.2 ^c
<u>Ages 5-9</u>												
All Sites	3,027	11.2	0.2	1.2*	0.1	2,557	2.6	-2.8*	-3.3*	-1.6* [#]	58.5	78.8 ^c
Brain and Other nervous	853	3.2	0.4	1.3	-0.4	921	0.9	-0.7*	-0.6	-0.4	58.0	72.2 ^c
Leukemia	1,066	3.9	0.6*	1.8*	0.0 [@]	738	0.7	-4.9*	-5.6*	-3.7* [#]	52.3	83.0 ^c
Acute lymphocytic	892	3.3	0.8*	2.6*	0.4 [@]	400	0.4	-5.6*	-6.6*	-3.7* [#]	55.6	86.9 ^c
<u>Ages 10-14</u>												
All Sites	3,717	13.1	0.7*	1.2*	0.5	2,618	2.5	-2.1*	-2.6*	-1.3* [#]	58.9	80.0 ^c
Bone and Joint	387	1.4	0.0	2.1	-1.3 [#]	321	0.3	-1.3*	-3.4*	0.9 [#]	52.8 ^d	68.7 ^c
Brain and Other nervous	748	2.6	1.0*	1.0	-0.5	701	0.7	-1.1*	-1.9*	-0.6 [@]	59.5	79.8 ^c
Hodgkin lymphoma	319	1.1	-1.1*	-0.9	-2.3	24	0.0	-	-	-	78.7	96.2 ^c
Leukemia	852	3.0	0.6	2.6	1.4	830	0.8	-3.0*	-3.2*	-2.9*	35.2	70.7 ^c
Acute lymphocytic	594	2.1	1.0*	3.9*	1.5	407	0.4	-3.4*	-2.8*	-3.0*	43.6 ^d	79.9 ^c
<u>Ages 15-19</u>												
All Sites	5,741	21.3	0.6*	1.1*	0.3 [@]	3,607	3.5	-1.9*	-2.4*	-1.5* [#]	68.0	80.4 ^c
Bone and Joint	417	1.5	0.2	1.4	-0.4	537	0.5	-1.2*	-2.8*	0.6 [#]	51.0 ^d	63.6 ^c
Melanoma of the skin	479	1.8	1.6*	1.8	1.2	44	0.0	-	-	-	76.2 ^d	98.0 ^c
Testis(males)	494	3.6	1.4*	1.5	1.4	48	0.1	-	-	-	66.0 ^d	92.5 ^c
Brain and Other nervous	565	2.1	0.4	1.4	-0.8	558	0.5	-1.1*	-1.2*	-1.1*	65.0	78.7 ^c
Thyroid	473	1.8	1.1*	1.1	1.1	-	-	-	-	-	100.0	97.9
Hodgkin lymphoma	790	2.9	-0.9*	0.5	-2.2* [#]	96	0.1	-4.6*	-3.1*	-5.4*	88.9	95.0 ^c
Non-Hodgkin lymphoma	487	1.8	1.6*	3.3*	1.0	261	0.3	-2.7*	-2.6*	-3.4*	48.0 ^d	78.7 ^c
Leukemia	807	3.0	0.9*	0.0	1.6	1,078	1.0	-2.1*	-2.3*	-2.4*	24.4	51.3 ^c
Acute lymphocytic	449	1.7	1.2*	2.3	2.2	465	0.5	-2.0*	-1.6*	-2.6*	29.5 ^d	53.8 ^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(as appropriate) 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 US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^c The difference in rates between 1975-1977 and 1996-2004 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 2001-2005.

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

The APC for 1990-2005 is significantly different from the APC for 1975-1989 ($p<.05$).

The APC for 1990-2005 is significantly different from the APC for 1975-1989 ($p<.10$).

^{*} 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 CANCER 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	2003	2004
Relative Survival Rates (SEER^b)																						
1-year	81.4	85.0	87.2	85.6	86.0	88.8	88.3	89.5	91.1	91.0	88.6	90.6	90.5	92.9	91.2	91.0	91.4	92.4	91.9	91.6	94.0	93.0
2-year	71.2	75.8	78.1	76.1	77.2	80.3	79.9	81.8	82.5	84.1	82.2	84.7	84.8	86.3	84.7	84.0	85.3	85.8	86.8	87.2	89.4	
3-year	65.5	70.7	73.8	72.4	73.0	76.6	75.4	77.6	79.2	81.0	78.9	81.7	81.3	83.7	82.2	81.4	82.7	83.4	83.5	83.4		
4-year	62.1	67.6	70.5	70.9	70.9	73.4	72.9	75.3	76.5	78.6	78.0	78.9	78.8	80.5	80.3	78.6	80.9	81.4	81.7			
5-year	60.0	65.9	69.6	68.7	70.3	72.5	71.5	74.2	75.3	77.5	76.4	78.2	77.3	80.1	78.9	77.6	78.9	80.4				
6-year	58.3	64.7	68.3	67.9	69.0	72.1	70.4	73.4	74.7	76.1	75.9	78.0	76.3	79.4	78.2	76.1	78.4					
7-year	57.2	63.8	67.2	67.8	67.9	71.2	69.0	72.5	74.1	75.8	75.5	77.2	75.7	78.8	77.6	75.6						
8-year	56.5	63.1	66.0	67.5	67.9	70.6	68.1	72.1	73.3	75.7	74.8	77.0	74.8	78.2	76.5							
9-year	56.1	62.5	65.5	66.9	67.6	70.4	67.7	71.5	72.9	75.6	74.5	76.2	74.4	77.9								
10-year	55.8	62.0	64.8	66.8	67.1	70.1	67.3	71.2	72.8	75.5	74.5	75.9	74.3									
11-year	55.4	61.6	64.1	66.8	66.8	69.9	67.1	70.6	72.5	75.4	74.3	75.2										
12-year	55.1	61.2	63.7	66.1	66.7	69.7	66.8	70.5	72.2	75.2	74.3											
13-year	54.9	60.8	63.4	65.8	66.3	69.4	66.8	69.8	72.1	75.0												
14-year	54.5	60.5	63.3	64.6	66.3	68.9	66.5	69.6	71.9													
15-year	54.3	60.2	63.0	64.6	65.9	68.7	66.5	69.2														
16-year	53.9	59.9	62.9	64.3	65.5	68.6	66.1															
17-year	53.6	59.7	62.9	64.0	65.2	68.2																
18-year	53.3	59.3	62.8	63.7	65.1																	
19-year	53.0	59.1	62.8	63.7																		
20-year	52.9	58.9	62.6																			

^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 CANCER 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	2003	2004
Relative Survival Rates (SEER^b)																						
1-year	83.1	86.3	88.0	88.0	88.1	89.8	89.5	90.6	91.5	90.4	89.8	90.8	90.3	93.2	91.6	92.1	91.3	91.2	92.2	92.4	94.1	92.5
2-year	73.2	77.4	78.7	79.1	80.0	82.4	81.3	83.1	83.6	83.4	82.8	84.3	84.8	87.3	85.0	85.2	85.7	84.1	87.1	87.4	89.3	
3-year	68.2	72.4	75.2	75.8	75.8	78.2	77.2	78.7	80.0	80.4	79.7	80.8	81.5	85.1	81.9	82.5	82.9	81.9	83.8	83.8		
4-year	64.9	69.5	72.4	74.0	73.5	75.4	74.0	76.4	77.8	78.1	78.3	78.7	79.9	82.1	80.2	79.7	80.9	80.1	81.9			
5-year	62.9	67.8	71.4	72.2	72.9	74.6	72.8	75.1	76.6	76.8	76.7	78.0	78.4	81.5	78.5	78.5	79.3	79.0				
6-year	61.2	66.4	70.3	71.5	71.8	74.0	71.5	74.1	75.9	75.6	76.1	77.5	77.4	80.8	77.5	77.3	78.8					
7-year	60.3	65.6	69.1	71.2	70.7	73.2	70.6	73.2	75.1	75.1	75.7	76.9	76.8	80.3	77.1	77.0						
8-year	59.5	64.8	68.3	70.8	70.4	72.3	70.0	72.5	74.4	75.0	74.9	76.6	75.9	79.7	76.4							
9-year	59.0	64.1	67.7	70.3	69.8	72.1	69.4	72.1	74.1	74.8	74.6	75.8	75.6	79.3								
10-year	58.6	63.7	67.1	69.9	69.4	71.5	69.2	71.8	73.7	74.8	74.5	75.5	75.5	75.4								
11-year	58.2	63.3	66.4	69.8	69.2	71.4	69.0	71.2	73.2	74.7	74.3	75.0										
12-year	57.9	62.9	66.1	69.3	69.0	71.1	68.8	71.0	72.9	74.6	74.3											
13-year	57.8	62.6	65.7	68.8	68.7	70.9	68.8	70.4	72.7	74.2												
14-year	57.4	62.2	65.6	67.6	68.4	70.2	68.5	70.0	72.6													
15-year	57.2	61.9	65.4	67.4	67.8	70.1	68.5	69.6														
16-year	56.9	61.5	65.0	66.8	67.4	70.0	68.2															
17-year	56.6	61.2	64.9	66.5	67.1	69.7																
18-year	56.3	61.0	64.8	66.3	66.7																	
19-year	56.1	60.7	64.7	66.1																		
20-year	55.7	60.4	64.6																			

^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, 2005
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	25 to <30	0 to <15 ^e	0 to <30 ^e	>=30 ^g	Complete ^h
<u>Race/Sex</u>										
All Races ^b	59,044	49,156	44,096	37,983	31,355	27,278	152,296	248,912	+	+
Males	31,593	25,700	23,188	19,236	15,639	12,448	80,482	127,804	+	+
Females	27,451	23,456	20,908	18,747	15,716	14,830	71,814	121,108	+	+
White ^b	49,623	41,351	37,330	32,907	27,558	24,164	128,302	212,932	+	+
Males	26,872	21,488	19,892	16,696	13,913	11,156	68,251	110,016	+	+
Females	22,751	19,863	17,438	16,211	13,645	13,008	60,051	102,916	+	+
Black ^b	6,262	4,910	4,400	3,359	2,656	2,209	15,572	23,796	+	+
Males	3,043	2,620	2,113	1,628	1,205	883	7,776	11,492	+	+
Females	3,219	2,290	2,287	1,731	1,451	1,326	7,796	12,304	+	+
Asian/Pacific Islander ^c	1,944	1,699	1,410	+	+	+	5,053	+	+	+
Males	1,043	928	698	+	+	+	2,669	+	+	+
Females	901	771	712	+	+	+	2,384	+	+	+
Hispanic ^d	9,728	7,000	5,800	+	+	+	22,527	+	+	+
Males	5,288	3,619	3,250	+	+	+	12,157	+	+	+
Females	4,440	3,381	2,550	+	+	+	10,370	+	+	+

^a US 2005 cancer prevalence counts are based on 2005 cancer prevalence proportions from the SEER registries and 1/1/2005 US population estimates based on the average of 2004 and 2005 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.

^e Maximum limited-duration prevalence: 30 years for 1975-2005 SEER 9 data; 15 years for 1990-2005 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

^f ^g (f) Cases diagnosed more than 30 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 <30 and >=30.

^h 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 2001-2005

Age <1			Age 1			Age 2		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	23.7	1299	All Sites	21.9	1187	All Sites	23.2	1237
Leukemia	4.7	257	Leukemia	6.9	375	Leukemia	10.3	551
Acute Lymphocytic Leukemia	1.9	107	Acute Lymphocytic Leukemia	4.6	250	Acute Lymphocytic Leukemia	9.0	482
Brain and ONS ^d	3.8	207	Brain and ONS ^d	3.9	213	Brain and ONS ^d	4.0	213
Soft Tissue	3.8	206	Kidney and Renal Pelvis	2.1	116	Kidney and Renal Pelvis	2.2	117
Other Endocrine	2.5	137	Eye and Orbit	1.8	97	Eye and Orbit	1.5	80
Eye and Orbit	2.4	134	Soft Tissue	1.8	95	Other Endocrine	1.3	69
Age 3			Age 4			Age 5		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	21.0	1110	All Sites	17.3	909	All Sites	13.4	706
Leukemia	10.6	562	Leukemia	8.1	425	Leukemia	5.5	290
Acute Lymphocytic Leukemia	9.7	513	Acute Lymphocytic Leukemia	7.3	384	Acute Lymphocytic Leukemia	4.9	256
Brain and ONS ^d	3.8	202	Brain and ONS ^d	4.0	211	Brain and ONS ^d	3.5	186
Kidney and Renal Pelvis	1.9	99	Kidney and Renal Pelvis	1.0	55	Kidney and Renal Pelvis	0.9	49
Soft Tissue	1.2	61	Soft Tissue	1.0	50	Non-Hodgkin Lymphoma	0.8	44
Other Endocrine	1.0	52	Non-Hodgkin Lymphoma	0.7	37	Soft Tissue	0.6	32
Age 6			Age 7			Age 8		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	11.6	614	All Sites	10.9	590	All Sites	10.3	564
Leukemia	4.1	216	Leukemia	4.0	216	Leukemia	3.2	177
Acute Lymphocytic Leukemia	3.4	183	Acute Lymphocytic Leukemia	3.5	187	Acute Lymphocytic Leukemia	2.6	144
Brain and ONS ^d	3.7	194	Brain and ONS ^d	3.0	160	Brain and ONS ^d	3.2	174
Non-Hodgkin Lymphoma	0.8	45	Non-Hodgkin Lymphoma	0.9	47	Non-Hodgkin Lymphoma	0.9	49
Soft Tissue	0.6	31	Bones and Joints	0.5	28	Bones and Joints	0.6	35
Kidney and Renal Pelvis	0.5	29	Soft Tissue	0.5	27	Soft Tissue	0.4	23
Age 9			Age 10			Age 11		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	9.9	553	All Sites	10.4	588	All Sites	11.7	670
Leukemia	3.0	167	Leukemia	2.6	144	Leukemia	3.0	171
Acute Lymphocytic Leukemia	2.2	122	Acute Lymphocytic Leukemia	1.9	105	Acute Lymphocytic Leukemia	2.3	131
Brain and ONS ^d	2.5	139	Brain and ONS ^d	2.3	128	Brain and ONS ^d	2.7	152
Non-Hodgkin Lymphoma	1.1	59	Non-Hodgkin Lymphoma	1.2	66	Non-Hodgkin Lymphoma	1.1	64
Bones and Joints	0.7	37	Bones and Joints	1.0	57	Bones and Joints	1.1	62
Hodgkin Lymphoma	0.6	34	Soft Tissue	0.7	41	Hodgkin Lymphoma	0.9	49

^a

Rates are per 100,000 per year. Cases are for the 17 SEER Areas over the time period 2001-2005.

^b

Top 5 cancer sites were determined based on the 2001-2005 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.

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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 2001-2005

Age 12			Age 13			Age 14		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	12.9	736	All Sites	14.4	815	All Sites	16.2	908
Leukemia	3.3	187	Leukemia	2.9	164	Leukemia	3.3	186
Acute Lymphocytic Leukemia	2.2	123	Acute Lymphocytic Leukemia	2.0	116	Acute Lymphocytic Leukemia	2.1	119
Brain and ONS ^d	2.6	150	Brain and ONS ^d	2.9	162	Brain and ONS ^d	2.8	156
Bones and Joints	1.5	83	Bones and Joints	1.6	90	Hodgkin Lymphoma	1.8	102
Non-Hodgkin Lymphoma	1.2	67	Non-Hodgkin Lymphoma	1.4	81	Bones and Joints	1.7	95
Hodgkin Lymphoma	1.0	56	Hodgkin Lymphoma	1.4	78	Non-Hodgkin Lymphoma	1.4	77
Age 15			Age 16			Age 17		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	18.5	1020	All Sites	19.3	1048	All Sites	21.6	1158
Leukemia	3.2	178	Leukemia	3.3	181	Leukemia	2.9	154
Acute Lymphocytic Leukemia	2.0	112	Acute Lymphocytic Leukemia	2.0	106	Acute Lymphocytic Leukemia	1.5	82
Hodgkin Lymphoma	2.3	127	Brain and ONS ^d	2.4	130	Hodgkin Lymphoma	2.8	151
Brain and ONS ^d	2.2	122	Hodgkin Lymphoma	2.3	127	Brain and ONS ^d	2.2	118
Bones and Joints	1.9	105	Bones and Joints	2.0	108	Testis	2.1	112
Non-Hodgkin Lymphoma	1.7	92	Non-Hodgkin Lymphoma	1.6	86	Non-Hodgkin Lymphoma	2.0	110
Age 18			Age 19					
	Rate	Cases		Rate	Cases			
All Sites	21.9	1183	All Sites	25.2	1332			
Hodgkin Lymphoma	3.3	178	Hodgkin Lymphoma	3.9	207			
Leukemia	2.6	143	Testis	3.1	163			
Acute Lymphocytic Leukemia	1.4	78	Leukemia	2.9	151			
Testis	2.4	130	Acute Lymphocytic Leukemia	1.3	71			
Melanoma of the Skin	2.3	126	Thyroid	2.6	135			
Thyroid	1.9	104	Melanoma of the Skin	2.5	134			

^a Rates are per 100,000 per year. Cases are for the 17 SEER Areas over the time period 2001-2005.

^b Top 5 cancer sites were determined based on the 2001-2005 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 2001-2005

Age <1			Age 1			Age 2		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	1.8	364	All Sites	2.1	412	All Sites	2.5	495
Leukemia	0.6	121	Leukemia	0.7	147	Leukemia	0.9	179
Acute Lymphocytic Leukemia	0.2	35	Acute Lymphocytic Leukemia	0.2	42	Acute Lymphocytic Leukemia	0.3	63
Brain and ONS ^d	0.4	83	Brain and ONS ^d	0.5	104	Brain and ONS ^d	0.5	103
Other Endocrine	0.2	35	Other Endocrine	0.3	58	Other Endocrine	0.5	94
Liver & IBD ^d	0.1	23	Liver & IBD ^d	0.1	29	Liver & IBD ^d	0.2	32
Soft Tissue	0.1	22	Soft Tissue	0.1	18	Soft Tissue	0.1	27
Age 3			Age 4			Age 5		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.8	540	All Sites	2.8	543	All Sites	2.7	528
Leukemia	0.9	169	Brain and ONS ^d	0.9	168	Brain and ONS ^d	1.0	185
Acute Lymphocytic Leukemia	0.3	61	Leukemia	0.7	137	Leukemia	0.6	125
Brain and ONS ^d	0.7	129	Acute Lymphocytic Leukemia	0.3	53	Acute Lymphocytic Leukemia	0.3	62
Other Endocrine	0.6	108	Other Endocrine	0.5	94	Other Endocrine	0.5	98
Liver & IBD ^d	0.1	27	Kidney and Renal Pelvis	0.2	36	Soft Tissue	0.2	42
Soft Tissue	0.1	27	Soft Tissue	0.1	27	Kidney and Renal Pelvis	0.1	25
Age 6			Age 7			Age 8		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.7	520	All Sites	2.7	525	All Sites	2.4	478
Brain and ONS ^d	1.0	198	Brain and ONS ^d	1.0	198	Brain and ONS ^d	0.8	170
Leukemia	0.7	140	Leukemia	0.7	148	Leukemia	0.7	142
Acute Lymphocytic Leukemia	0.4	78	Acute Lymphocytic Leukemia	0.4	75	Acute Lymphocytic Leukemia	0.4	86
Other Endocrine	0.4	72	Other Endocrine	0.4	73	Other Endocrine	0.3	52
Kidney and Renal Pelvis	0.2	36	Kidney and Renal Pelvis	0.1	29	Soft Tissue	0.1	23
Soft Tissue	0.1	19	Soft Tissue	0.1	22	Non-Hodgkin Lymphoma	0.1	22
Age 9			Age 10			Age 11		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.5	506	All Sites	2.4	492	All Sites	2.1	443
Leukemia	0.9	183	Brain and ONS ^d	0.8	162	Leukemia	0.6	133
Acute Lymphocytic Leukemia	0.5	99	Leukemia	0.7	150	Acute Lymphocytic Leukemia	0.3	69
Brain and ONS ^d	0.8	170	Acute Lymphocytic Leukemia	0.4	93	Brain and ONS ^d	0.6	129
Other Endocrine	0.2	45	Bones and Joints	0.2	41	Bones and Joints	0.2	46
Bones and Joints	0.1	26	Other Endocrine	0.2	40	Soft Tissue	0.2	37
Soft Tissue	0.1	23	Soft Tissue	0.2	32	Other Endocrine	0.1	28

^a Rates are per 100,000 per year. Deaths are for the entire United States over the time period 2001-2005.

^b Top 5 cancer sites were determined based on the 2001-2005 age-adjusted rate.

^c US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^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 2001-2005

Age 12			Age 13			Age 14		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.3	498	All Sites	2.7	582	All Sites	2.9	603
Leukemia	0.8	179	Leukemia	0.9	184	Leukemia	0.9	184
Acute Lymphocytic Leukemia	0.4	87	Acute Lymphocytic Leukemia	0.4	82	Acute Lymphocytic Leukemia	0.4	76
Brain and ONS ^d	0.6	134	Brain and ONS ^d	0.7	139	Brain and ONS ^d	0.7	137
Bones and Joints	0.3	59	Bones and Joints	0.4	78	Bones and Joints	0.5	97
Non-Hodgkin Lymphoma	0.1	30	Soft Tissue	0.2	48	Soft Tissue	0.2	52
Other Endocrine	0.1	23	Non-Hodgkin Lymphoma	0.2	33	Non-Hodgkin Lymphoma	0.1	30
Age 15			Age 16			Age 17		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.8	586	All Sites	3.3	679	All Sites	3.4	690
Leukemia	0.9	194	Leukemia	1.0	209	Leukemia	1.0	211
Acute Lymphocytic Leukemia	0.4	85	Acute Lymphocytic Leukemia	0.5	94	Acute Lymphocytic Leukemia	0.5	94
Brain and ONS ^d	0.6	115	Bones and Joints	0.5	113	Brain and ONS ^d	0.5	109
Bones and Joints	0.4	74	Brain and ONS ^d	0.5	111	Bones and Joints	0.5	108
Soft Tissue	0.3	55	Soft Tissue	0.3	64	Soft Tissue	0.3	67
Non-Hodgkin Lymphoma	0.2	46	Non-Hodgkin Lymphoma	0.2	36	Non-Hodgkin Lymphoma	0.2	43
Age 18			Age 19					
	Rate	Deaths		Rate	Deaths			
All Sites	3.9	797	All Sites	4.2	855			
Leukemia	1.1	219	Leukemia	1.2	245			
Acute Lymphocytic Leukemia	0.4	84	Acute Lymphocytic Leukemia	0.5	108			
Brain and ONS ^d	0.6	114	Bones and Joints	0.7	136			
Bones and Joints	0.5	106	Brain and ONS ^d	0.5	109			
Soft Tissue	0.4	76	Soft Tissue	0.3	71			
Non-Hodgkin Lymphoma	0.4	74	Non-Hodgkin Lymphoma	0.3	62			

^a Rates are per 100,000 per year. Deaths are for the entire United States over the time period 2001-2005.

^b Top 5 cancer sites were determined based on the 2001-2005 age-adjusted rate.

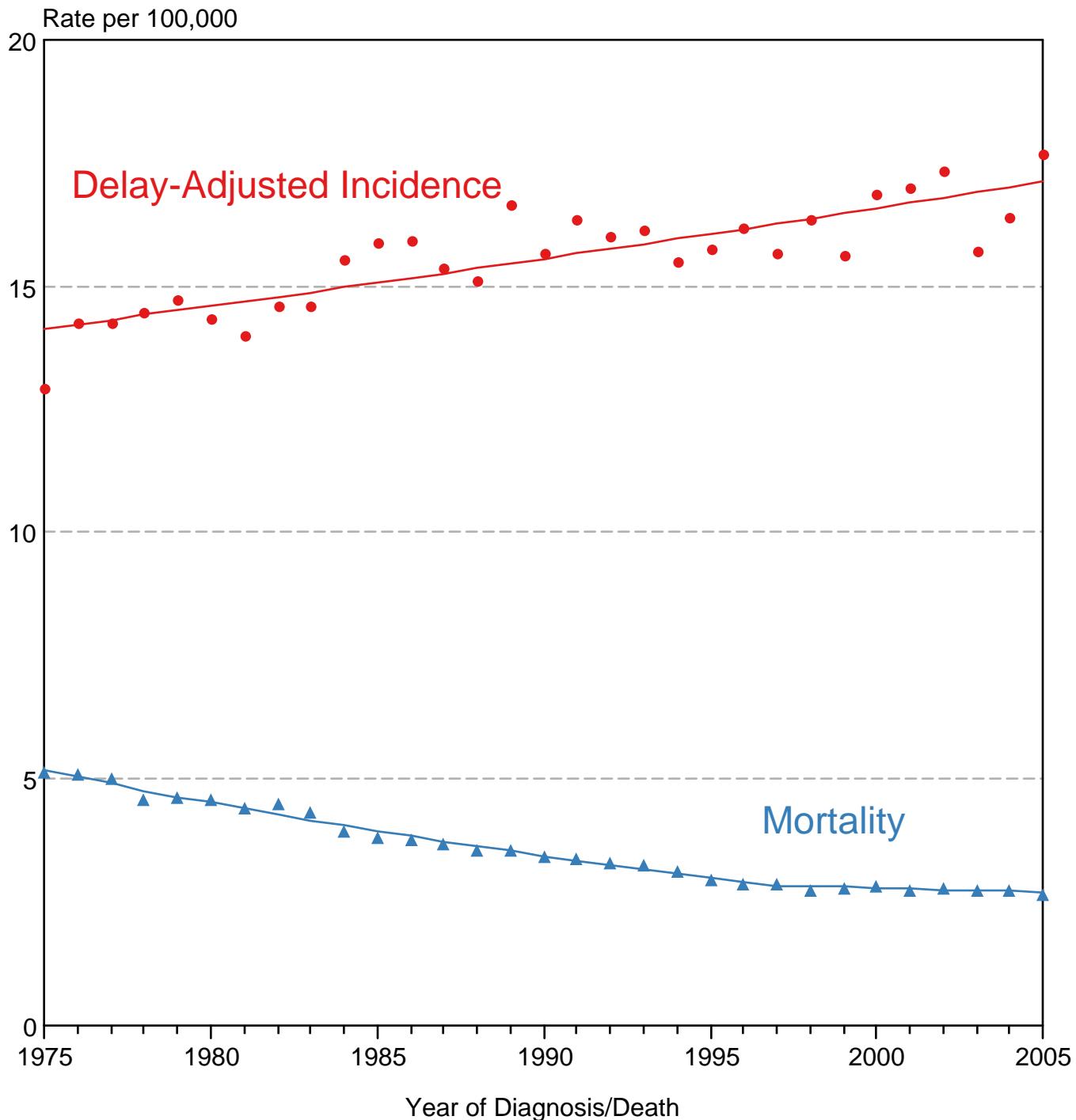
^c US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

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

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

Figure XXVIII-1

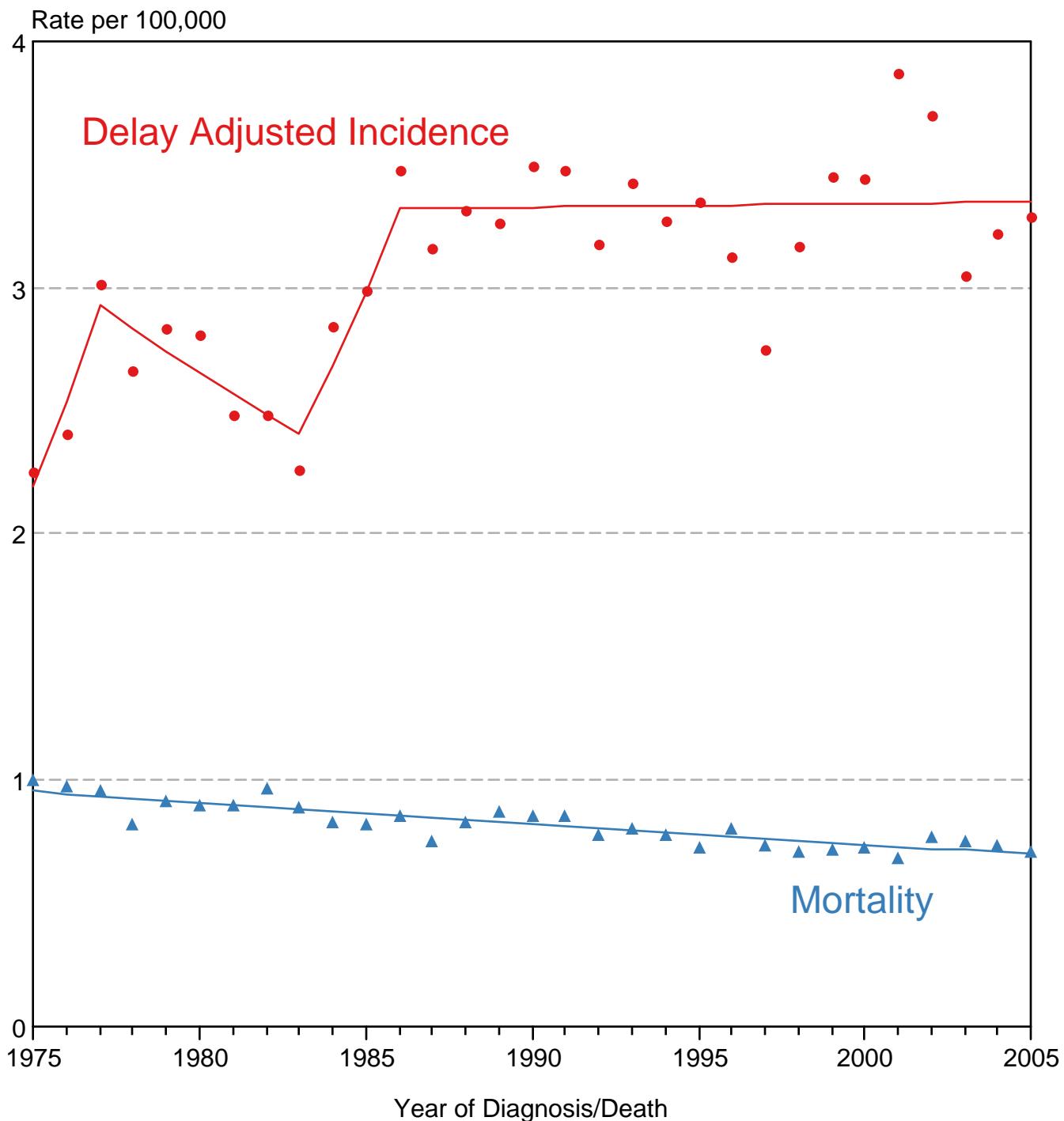
SEER Delay-Adjusted Incidence and US Mortality All Childhood Cancers, Under 20 Years of Age Both Sexes, All Races, 1975-2005



Source: SEER 9 areas and US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
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 3.3, April 2008, National Cancer Institute.

Figure XXVIII-2

SEER Delay-Adjusted Incidence and US Mortality Brain and CNS, Under 15 Years of Age Both Sexes, All Races, 1975-2005

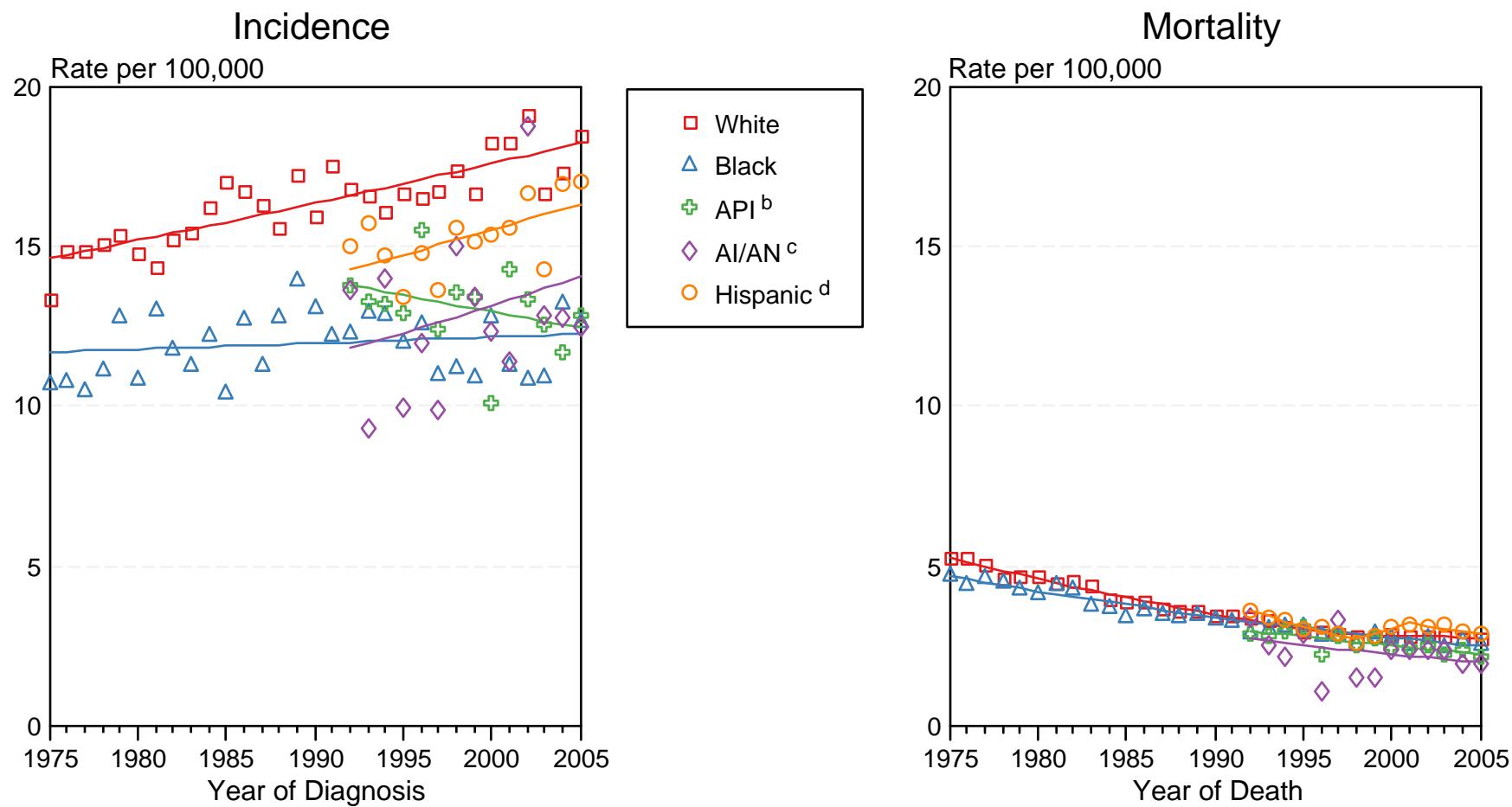


Source: SEER 9 areas and US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
Regression lines are calculated using the Joinpoint Regression Program Version 3.3, April 2008, National Cancer Institute.

SEER Incidence and US Death Rates^a

All Cancer Sites, Ages <20, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2005
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2005



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, American Indians/Alaska Natives 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 US Mortality Files, National Center for Health Statistics, CDC.

^a 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 3.3.1, April 2008, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2005 period allow a maximum of 4 joinpoints. Analyses for other ethnic groups during the period 1992-2005 allow a maximum of 3 joinpoints.

^b API = Asian/Pacific Islander.

^c AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

^d 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 the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.

Figure XXVIII-3