						Tre	ends in 19'	75-2018								
	1st	t segment		2nd seg	gment		3rd	l segment			4th			AAPC ^a		
											segment					
	Years	APC (95% CI)	Р	Years	APC	Р	Years	APC	Р	Years	APC	Р	2008-	Р		
					(95%			(95% CI)			(95%		2018			
					CI)						CI)					
ll sites																
Both sexes combined	1975-	0.8 (0.7 to 0.9)	< .001	_	_	_	_	_	_	_	_	_	0.8	< .001		
	2018												(0.7 to			
													0.9)			
Males	1975-	0.8 (0.7 to 0.9)	< .001	_	_	_	_	_	_	_	_	_	0.8	< .001		
	2018												(0.7 to			
													0.9)			
Females	1975-	0.6 (0.4 to 0.7)		2006-	1.8	<.001	2015-	-2.0 (-	.27	_	_	-	0.7 (-	.28		
	2006		<.001	2015	(1.0 to		2018	5.5 to					0.5 to			
					2.7)			1.7)					1.9)			
Ages 0-4 years	1975-	0.8 (0.7 to 0.9)	<.001	2015-	-2.9	.16	_	-	-	_	-	-	-0.3 (-	.60		
	2015			2018	(-6.8								1.5 to			
					to 1.2)								0.9)			
Ages 5-9 years	1975-	0.5 (0.2 to 0.7)		2006-	4.7 (-	.43	2009-	- 0.0 (-	.94	_	-	-	0.4 (-	.56		
	2006		.001	2009	6.7 to		2018	1.0 to					1.0 to			
					17.4)			1.0)					1.9)			

plementary Table 1. Joinpoint incidence trends for the ICCC-3 cancer group in children and adolescents (Ages 0-19 years), United States, 1975-2018.	

Ages 10-14 years	1975-	0.7 (0.5 to 1.0)	< .001	2006-	1.8	< .001	_	_	_	_	_	_	1.8	< .001
	2006			2018	(1.1 to								(1.1 to	
					2.4)								2.4)	
Ages 0-14 years	1975-	0.8 (0.7 to 0.9)	<.001	_	_	_	-	_	-	-	_	-	0.8	< .001
	2018												(0.7 to	
													0.9)	
Ages 15-19 years	1975-	0.5 (0.3 to 0.7)	<.001	2006-	1.3	<.001	_	_	_	-	_	—	1.3	< .001
	2006			2018	(0.8 to								(0.8 to	
					1.8)								1.8)	
Non-Hispanic Whi	ite ^b 1992-	0.9 (0.7 to 1.1)	< .001	—	—	_	—	—	-	-	—	-	0.9	< .001
	2018												(0.7 to	
													1.1)	
Non-Hispanic Blac			.13	1998-	2.0	< .001	2013-	-1.6 (-	.25	-	_	-	0.2 (-	.75
	1998	0.9)		2013	(1.4 to		2018	4.3 to					1.1 to	
					2.7)			1.2)					1.6)	
Non-Hispanic API		-0.4 (-1.7 to	.56	2004-	2.0	< .001	_	_	_	-	_	_	2.0	< .001
	2004	1.0)		2018	(1.2 to								(1.2 to	
					2.8)								2.8)	
Non-Hispanic AI/		1.4 (0.7 to 2.2)	< .001	_	_	_	_	_	_	-	_	_	1.4	< .001
	2018												(0.7 to	
													2.2)	
Hispanic	1992-	1.0 (0.8 to 1.3)	< .001	_	_	_	_	_	_	-	_	—	1.0	< .001
	2018												(0.8 to	
ICCC 2 appage group													1.3)	
HIII' Z concor grour														

ICCC-3 cancer group,

both sexes

I Leukemias, myeloproliferative diseases, and myelodysplastic diseases	1975- 2009	1.2 (1.0 to 1.4)	< .001	2009- 2018	0.3 (- 0.4 to 1.1)	.36	_	_	_	_	_	-	0.4 (20 0.2 to 1.1)
II Lymphomas and reticuloendothelial neoplasms	1975- 2004	-0.3 (-0.5 to 0.0)	.06	2004- 2015	3.2 (2.3 to 4.1)	< .001	2015- 2018	-2.6 7.8 2.9)	(– .3 to	3 –	_	_	1.4 (10 0.3 to 3.2)
III CNS and miscellaneous intracranial and	1975- 1988	2.1 (0.6 to 3.7)	.008	1988- 2018	0.3 (0.0 to 0.6)	.03	_	_	_	_	-	_	0.3 .037 (0.0 to 0.6)
intraspinal neoplasms IV Neuroblastoma, other peripheral nervous cell tumors	1975- 2018	-0.0 (-0.3 to 0.3)	.82	_	_	_	_	_	_	_	_	_	-0.0 (82 0.3 to 0.3)
V Retinoblastoma	1975- 2018	0.3 (-0.0 to 0.6)	.07	_	_	_	_	_	-	_	_	_	0.3 (07 0.0 to 0.6)
VI Renal tumors	1975- 2018	0.1 (-0.1 to 0.4)	.30	_	_	_	_	_	_	_	_	_	0.1 (30 0.1 to 0.4)
VII Hepatic tumors	1975- 2018	1.9 (1.3 to 2.4)	< .001	_	_	_	_	_	_	_	-	_	1.9 < .001 (1.3 to 2.4)
VIII Malignant bone tumors	1975- 2018	0.3 (0.0 to 0.6)	.03	_	_	_	_	_	_	_	_	_	0.3 .03 (0.0 to

IX Soft tissue and other extraosseous sarcomas	1975- 2018	0.4 (0.1 to 0.6)	.002	_	_	_	_	_	_	_	-	_	0.4 (0.1 to 0.6)	.002
X Germ cell tumors, trophoblastic tumors, and neoplasms of gonads	1975- 2018	0.7 (0.4 to 0.9)	< .001	-	_	_	_	_	_	_	_	_	0.7 (0.4 to 0.9)	< .001
XI Other malignant epithelial neoplasms and malignant melanomas	1975- 2008	0.8 (0.4 to 1.1)	<.001	2008- 2018	4.6 (3.4 to 5.8)	<.001	_	_	_	-	_	_	4.6 (3.4 to 5.8)	< .001
XII Other and unspecified malignant neoplasms ICCC-3 cancer group, male	1975- 2018	-0.2 (-1.0 to 0.6)	.68	_	_	-	-	_	_	_	_	_	-0.2 (- 1.0 to 0.6)	.68
I Leukemias, myeloproliferative diseases, and myelodysplastic diseases	1975- 2018	1.0 (0.9 to 1.2)	< .001	_	_	_	_	_	_	-	_	_	1.0 (0.9 to 1.2)	< .001
II Lymphomas and reticuloendothelial neoplasms	1975- 2004	-0.3 (-0.7 to 0.0)	.08	2004- 2014	3.9 (2.5 to 5.3)	< .001	2014- 2018		(39 to	_	_	_	1.6 (- 0.3 to 3.5)	.10

0.6)

III CNS and miscellaneous intracranial and intraspinal neoplasms	1975- 1988	2.4 (0.6 to 4.2)	.008	1988- 2018	0.1 (- 0.2 to 0.4)	.39	_	_	_	_	_	_	0.1 (- 0.2 to 0.4)	.39
IV Neuroblastoma, other peripheral nervous cell tumors	1975- 2018	-0.1 (-0.5 to 0.3)	.64	_	_	_	_	_	_	_	_	_	-0.1 (- 0.5 to 0.3)	.64
V Retinoblastoma	1975- 2018	0.3 (-0.3 to 0.9)	.34	_	_	_	_	_	_	_	_	_	0.3 (- 0.3 to 0.9)	.34
VI Renal tumors	1975- 2018	0.1 (-0.3 to 0.4)	.73	_	_	_	_	_	_	_	_	_	0.1 (- 0.3 to 0.4)	.73
VII Hepatic tumors	1975- 2018	2.1 (1.3 to 2.8)	< .001	_	_	_	_	_	_	_	_	_	2.1 (1.3 to 2.8)	< .001
VIII Malignant bone tumors	1975- 2018	0.4 (0.0 to 0.8)	.05	_	_	_	_	-	_	_	_	_	2.8) 0.4 (0.0 to 0.8)	.05
IX Soft tissue and other extraosseous sarcomas	1975- 2018	0.4 (0.1 to 0.7)	.008	_	_	-	_	_	_	_	-	_	0.4 (0.1 to 0.7)	.008
X Germ cell tumors, trophoblastic tumors, and neoplasms of gonads	1975- 2018	1.0 (0.6 to 1.3)	<.001	_	_	_	_	_	_	_	-	_	1.0 (0.6 to 1.3)	< .001

XI Other malignant epithelial neoplasms and malignant melanomas XII Other and unspecified malignant neoplasms ICCC-3 cancer group, female	1975- 2011 -	0.9 (0.4 to 1.3)	< .001	2011- 2018	4.6 (1.5 to 7.8)	.004	_	_	_	_	_	_	3.5 (1.4 to 5.6)	.001
I Leukemias, myeloproliferative diseases, and myelodysplastic diseases	1975- 2018	1.1 (0.9 to 1.3)	< .001	_	_	_	_	_	_	_	_	_	1.1 (0.9 to 1.3)	< .001
II Lymphomas and reticuloendothelial neoplasms	1975- 2003	-0.2 (-0.7 to 0.2)	.24	2003- 2018	2.0 (1.3 to 2.7)	< .001	_	_	_	_	_	_	2.0 (1.3 to 2.7)	< .001
III CNS and miscellaneous intracranial and intraspinal neoplasms	1975- 2018	0.7 (0.4 to 1.0)	< .001	_	_	_	_	_	_	_	_	_	0.7 (0.4 to 1.0)	< .001
IV Neuroblastoma, other peripheral nervous cell tumors	1975- 2018	- 0.0 (-0.4 to 0.4)	.83	_	_	_	_	_	_	_	_	_	0.0 (- 0.4 to 0.4)	.83
V Retinoblastoma	1975- 2018	0.1 (-0.4 to 0.7)	.62	_	_	_	_	-	_	_	_	_	0.1 (- 0.4 to 0.7)	.62

VI Renal tumors	1975- 2018	0.2 (-0.2 to 0.6)	.31	-	_	_	_	_	-	-	_	_	0.2 (- 0.2 to	.31
vi Kenar tumors	2010												0.6)	
	1975-	1.4 (0.6 to 2.3)	.001	_	_	_	_	_	_	_	_	_	1.4	.001
VII Hepatic tumors	2018												(0.6 to	
													2.3)	
VIII Malignant bone	1975-	0.1 (-0.3 to 0.6)	.48	_	_	_	_	_	_	_	_	_	0.1 (-	.48
tumors	2018												0.3 to 0.6)	
	1975-	0.3 (0.0 to 0.7)	.05	_	_	_	_	_	_	_	_	_	0.0)	.05
IX Soft tissue and other	2018	(,											(0.0 to	
extraosseous sarcomas													0.7)	
X Germ cell tumors,	1975-	0.2 (-0.2 to 0.5)	.33	_	_	_	-	_	_	_	_	_	0.2 (-	.33
trophoblastic tumors,	2018												0.2 to	
and neoplasms of													0.5)	
gonads	1075	0.(0.2 + 1.0)	000	2006	4.5	<.001							15	< 001
XI Other malignant	1975-	0.6 (0.2 to 1.0)	.008	2006-	4.5	< .001	_	_	_	_	_	_	4.5	< .001
epithelial neoplasms and	2006			2018	(3.5 to								(3.5 to	
malignant melanomas					5.6)								5.6)	
XII Other and	_													
unspecified malignant														
neoplasms														
$^{a} \Delta \Delta PC$ is the average ann	ial nercei	nt change and is a	weighted av	erage of	the APCs	over the fiv	ed interv	al 2008_201	8 using 1	the under	rlving Joinn	oint mo	del for the	period of

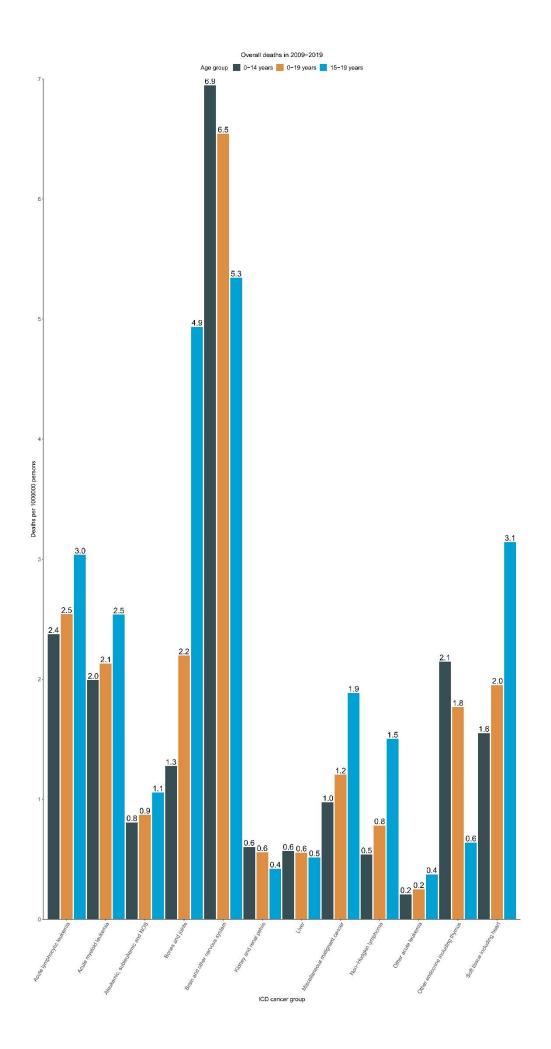
^a AAPC is the average annual percent change and is a weighted average of the APCs over the fixed interval 2008-2018 using the underlying Joinpoint model for the period of 1975-2018.

^b Incidence trends by races/ethnicities were calculated between 1992 and 2018. APC, annual percent change; CI, confidence interval; AAPC, average annual percent change. APC was not calculated if case count was <10 cases in any 1 calendar year.

	Non-	Hispanic White		Non-	Hispanic Black	Hispanic				
ICD cancer group	Rate	AAPC (95% CI)	Р	Rate	AAPC (95% CI)	Р	Rate	AAPC (95% CI)	Р	
Brain and other nervous system	6.8	-0.4 (-0.6 to -0.1)	.006	6.7	-0.1 (-0.7 to 0.4)	.63	6.0	-0.3 (-0.7 to 0.2)	.26	
Acute lymphocytic leukemia	2.1	-3.5 (-3.9 to -3.1)	< .001	1.7	-3.2 (-4.3 to -2.2)	< .001	4.1	-2.9 (-3.4 to -2.3)	< .00	
Bones and joints	2.2	0.0 (-0.5 to 0.5)	.89	1.9	-0.6 (-1.4 to 0.1)	.10	2.3	-0.5 (-1.2 to 0.2)	.16	
Acute myeloid leukemia	1.9	-1.5 (-2.0 to -1.0)	<.001	2.2	-1.3 (-2.2 to -0.4)	.008	2.4	-0.9 (-1.6 to -0.1)	.02	
Soft tissue including heart	2.0	0.4 (-0.0 to 0.8)	.08	2.2	-0.1 (-1.0 to 0.9)	.91	1.8	0.3 (-0.5 to 1.2)	.40	
Other endocrine including thymus	2.1	-1.3 (-1.8 to -0.8)	<.001	2.0	-5.0 (-8.5 to -1.5)	.008	1.1	-2.1 (-3.4 to -0.7)	.004	
Miscellaneous malignant cancer	1.2	0.6 (-0.2 to 1.3)	.12	1.1	-		1.2	0.5 (-0.8 to 1.8)	.45	

Supplementary Table 2. Age-standardized death rates and fixed-interval trends (2009-2019) for the ICD cancer group by racial/ethnic group, ages 0-19 years.

Aleukemic, subleukemic and NOS	-2.7 (-3.4 to -1.9) < .001 0.8	0.8	-5.4 (-8.2 to -2.5) .001 1.0
Non–Hodgkin lymphoma	-4.3 (-4.9 to -3.7) < .001 0.8	-2.0 (-3.0 to -0.9) .001	0.7
Kidney and renal pelvis	-4.3 (-6.2 to -2.2) < .001 0.5	1.0	0.5
Liver	-1.2 (-2.1 to -0.4) .006 0.5	0.6	0.6
Other acute leukemia	0.2	0.3	0.3



Supplementary Figure 1. Cancer death rates of children, adolescents, and children and adolescents in the United States, 2009–2019, by the International Classification of Disease (ICD) group. Rates were per 1000000 persons, age-standardized to the 2000 US standard population (19 age groups, Census P25–1130).