



Background

Although financial toxicity is an increasingly recognized side effect of a cancer diagnosis and treatment, little is known about the characteristics of children, adolescent, and young adult (AYA) cancer patients and caregivers who seek financial assistance. We sought to describe patient demographics and causes of financial burden in a large national sample of children and AYA patients and families who applied for financial support.

Methods

Cancer patients aged <1 to 39 years who were receiving active cancer treatment and had applied for a financial grant to the Family Reach Foundation between 2010-2015 were included in the analysis. The Family Reach Foundation is a is a 501(c)(3) organization that provides assistance to families with a child or parent afflicted with cancer. Family Reach grants help cover costs for uncovered medical expenses, mortgage or rent, transportation, utilities, and everyday expenses such as groceries.

Descriptive statistics characterized the study population; chi2 test was used to evaluate differences between groups.

Financial Toxicity in Children, Adolescent, and Young Adult Cancer Patients and Their Families: A Large National Registry Analysis from the Family Reach Foundation

Patient and Family Characteristics

		Ν	%
Total		2198	1
Patient Age , years			
	<1-14.99	1519	6
	15-24.99	524	2
	25-39	155	7
Patient Race/Ethnicity			
	White, Non-Hispanic	659	3
	White, Hispanic	618	2
	African American	287	1
	Asian	77	4
	Other	557	2
Primary Cancer Type			
	leukemia	909	4
	lymphoma	180	8
	CNS	438	2
	Sarcoma	283	1
	Other	388	1
Family Income			
	<\$25,000	966	4
	\$25,000-\$50,000	580	2
	\$50,000-\$100,000	273	1
	>\$100,000	18	1
	Unknown	361	1
No. People in Household			
	<3	142	9
	3-4	879	4
	5-6	616	2
	>6	104	5
	Unknown	457	2
Single Parent Household			
_	Yes	634	2
	No	1182	5
	Unknown	382	1

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Results Summary

- 2198 children, adolescents, and young adults (69% <15 years; 24% 15-24 years; 7% 25-40 years) from 48 U.S. states are included.
- 28%, 13%, 11%, and 30% were Hispanic, African American, Multiracial, and Caucasian non-Hispanic, respectively.
- Family income was <\$24,250 in 44%, and 29% were living in a single parent household.
- Cancer diagnoses included those common to children and AYAs: acute leukemia (36%), sarcoma (13%), brain (14%), lymphoma (9%). The mean grant funded was \$1163 (range \$0-\$6461).
- Causes of financial need were characterized as non-medical costs (e.g. rent, mortgage, food, auto payments) or medical costs (e.g. uncovered insurance medical expenses, health premiums/copays, travel to hospital, lodging).
- The majority (92%) of financial burden was nonmedical costs, with rent/mortgage accounting for 62%. Medical costs accounted for a greater proportion of financial burden in patients and families of AYA cancer patients (12%) as compared to families of childhood cancer patients (6%); p < 0.001.

Conclusion

In this large national sample of pediatric and AYA cancer patients seeking financial support, the costs of daily living predominate as important drivers of financial toxicity. Future research should focus on interventions to relieve the varied causes of financial distress associated with childhood and AYA cancer.