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Project Requirements and Description

Requirements to submit AOI

Requirements to submit AOI (all answers must be "yes" to proceed)

A comprehensive review of previously published data has been completed	Yes
The specific aims are clear and focused	Yes
The investigator has appropriate experience and expertise to develop the concept proposal; if not, has identified a mentor or senior co-investigator.	Yes
The investigator agrees to develop an initial draft of the concept proposal within 6 weeks of approval of the AOI and to finalize the concept proposal within 6 months	Yes

Project Title	Determining the Relationship between Financial Hardship and Frailty in Childhood Cancer Survivors

Planned research population (eligibility criteria)

CCSS participants who have completed FU 6 (medium) survey and completed FU5 and FU 8 (frailty assessment).

Proposed specific aims

Overall Objective:

To examine the relationship between financial hardship and frailty among long-term survivors of childhood cancer using the Childhood Cancer Survivor Study (CCSS) cohort.

Aim 1. Quantify the association between financial hardship and frailty among CCSS survivors and sibling controls.

• Approach: Assess cross-sectional relationships between domains of financial hardship (material, psychological, behavioral) and frailty status using CCSS surveys.

• Hypothesis: Survivors experiencing greater financial hardship will have higher odds of frailty compared with survivors with minimal hardship independent of age, sex, race/ethnicity, and treatment exposures.

Aim 2. Evaluate the temporal and bidirectional relationship between financial hardship and frailty.
•   Approach: Leverage longitudinal CCSS follow-up data (FU5–FU8) to evaluate the temporal and potentially bidirectional relationship between financial hardship and frailty. Given that financial hardship is measured only at FU6, we will assess whether financial hardship at FU6 predicts subsequent frailty or frailty progression. The reverse direction, frailty predicting financial hardship, can be examined only cross-sectionally at FU6.
•   Hypothesis: Financial hardship will predict future frailty, while frailty will predict subsequent financial hardship, suggesting a reciprocal, reinforcing relationship.
Aim 3. Identify mediators and moderators of the financial hardship–frailty relationship.
•   Approach: Examine chronic health conditions (CHCs), treatment exposures (e.g., radiation, chemotherapy), psychosocial factors (resilience, social support), and neighborhood-level social vulnerability index (SVI) as potential mediators or moderators using CCSS survey data.
•   Hypothesis: CHCs and treatment-related late effects will partially mediate the association, whereas resilience and social support will buffer the impact of financial hardship on frailty.

Will the project require non-CCSS funding to complete?   No

If yes, what would be the anticipated source(s) and timeline(s) for securing funding?

Does this project require contact of CCSS study subjects for:

Additional self-reported information	No
Biological samples	No
Medical record data	No

If yes to any of the above, please briefly describe.

What CCSS Working Group(s) would likely be involved? (Select all that apply)

	Primary	Secondary
Second Malignancy		
Chronic Disease		✓
Psychology/Neuropsychology		✓
Genetics		
Cancer Control	✓	
Epidemiology/Biostatistics		

Outcomes or Correlative Factors

	Primary	Secondary	Correlative Factors
Late Mortality			✓
Second Malignancy			✓

Health Behaviors

	Primary	Secondary	Correlative Factors
Tobacco			
Alcohol			
Physical Activity			✓
Medical Screening			
Other			

If other, please specify

Psychosocial

	Primary	Secondary	Correlative Factors
Insurance		✓	
Marriage		✓	
Education		✓	
Employment		✓	
Other		✓	

If other, please specify

Financial Hardship Questionnaire from FU6.

Medical Conditions

	Primary	Secondary	Correlative Factors
Hearing/Vision/Speech			✓
Hormonal Systems			✓
Heart and Vascular			✓

	Primary	Secondary	Correlative Factors
Respiratory			✓
Digestive			✓
Surgical Procedures			✓
Brain and Nervous System			✓
Other			✓

If other, please specify

Medications

Describe medications

Psychologic/Quality of Life

	Primary	Secondary	Correlative Factors
BSI-18		✓	
SF-36		✓	
CCSS-NCQ			
PTS			
PTG			
Other		✓	

If other, please specify
- Components of SF-36 to be used to calculate a frailty score
- SF-36 Mental Component Summary (MCS)-higher scores used as indicators of adaptive functioning)
- BSI as proxy to measure resilience

Other

	Primary	Secondary	Correlative Factors
Pregnancy and Offspring			
Family History			
Chronic Conditions (CTCAE v3)		✓	

	Primary	Secondary	Correlative Factors
Health Status		✓	

Demographic

	Primary	Secondary	Correlative Factors
Age			✓
Race			✓
Sex			✓
Other			

If other, please specify

Cancer Treatment

	Correlative Factors
Chemotherapy	✓
Radiation Therapy	✓
Surgery	✓

Anticipated Sources of Statistical Support

CCSS Statistical Center	Yes
Local Institutional Statistician	No

If local, please provide the name(s) and contact information of the statistician(s) to be involved.

Will this project utilize CCSS biologic samples? No

If yes, which of the following?

If other, please explain

Other General Comments

Agree

I agree to share this information with St. Jude

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