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Project Requirements and Description

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	Impact of Changes in Physical Activity on Accumulation of Chronic Conditions in Survivors of Childhood Cancer.
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Planned research population (eligibility criteria)

Survivors and siblings who completed the Cumulative Illness Rating Scale for Geriatrics (CIRS-G)

Proposed specific aims

Aim 1: To determine the association between changes in frequency and intensity of physical activity on the number and severity of chronic condition burden across different organ systems using the Cumulative Illness Rating Scale for Geriatrics (CIRS-G) in survivors of childhood cancer.

Hypothesis: Decreases in physical activity will be associated with a higher number and greater severity of chronic conditions, as measured by the CIRS-G.

Aim 2a: To determine whether the association between physical activity and chronic condition burden differs by cancer diagnosis type (e.g., CNS tumors vs. non-CNS cancers).

Hypothesis: The protective effect of physical activity on chronic condition accumulation will be attenuated in survivors of CNS tumors due to neurocognitive or physical limitations.

Aim 2b: To assess whether demographic (e.g., age, sex, race/ethnicity) or treatment-related factors (e.g., radiation, chemotherapy exposure) moderate the relationship between physical activity and chronic health burden.

Aim 3: To explore the temporal relationship between physical activity patterns and chronic condition burden.

Hypothesis: Sustained physical activity over time will predict a slower rate of chronic condition accumulation compared to intermittent or declining physical activity patterns.

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

Medical Conditions

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

Cumulative Illness Rating Scale for Geriatrics

Other

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

Dr. Lauren Appell (ACRI/UAMS) will lead this project with the support of Ellen van der Plas and Tara Brinkman.

Agree

I agree to share this information with St. Jude

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