Section: Contact Information

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Section: Project Requirements and Description

Group: Requirements to submit AOI

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 : **Psychological Distress, Social Functioning, and Phenotypic Aging in Adult Survivors of Childhood Cancer**
Planned research population (eligibility criteria) :
Survivors and siblings who:
- Are 18+ years of age at Follow-up 2
- Are not deceased at Follow-up 2
- Have psychosocial data available at Follow-up 2, 4, and 5
- Have phenotypic aging data available at Follow-up 5 or 6
Proposed specific aims :
Aim 1. Evaluate associations between psychological distress and symptoms of phenotypic aging in survivors of childhood cancer versus sibling controls.

- H1: Higher cumulative levels of psychological distress (anxiety and depression symptoms) from FU2 to FU5 will be associated with greater phenotypic aging (frailty, lower neurocognitive and physical function, role disruption due to physical health) at FU5 or FU6, and these associations will be stronger for survivors than siblings.

Aim 2. Evaluate the degree to which social functioning modulates associations between psychological distress and symptoms of phenotypic aging in survivors of childhood cancer versus sibling controls.

- H2: Social functioning (social function, marital status) will modulate the association between psychological distress and phenotypic aging, and this effect will be stronger for survivors than siblings. Specifically, among survivors with better social functioning (less disruption in social activities, married or living with a partner as married) from FU2 to

FU5, higher levels of psychological distress will be associated with fewer symptoms of phenotypic aging compared to those with poorer social functioning.

Aim 3. Evaluate the feasibility of collecting dried blood spots to assess biomarkers in a group of survivors with high versus low frailty.

Will the project require non-CCSS funding to complete? : **Yes**
If yes, what would be the anticipated source(s) and timeline(s) for securing funding? : **I plan to apply for the CCSS Junior Faculty Career Development Award for the funding needed to complete additional data collection for the dried blood spot cards.**

Group: Does this project require contact of CCSS study subjects for:

Additional self-reported information : **No**
Biological samples : **Yes**
Medical record data : **No**
If yes to any of the above, please briefly describe. :
This project aims to evaluate the feasibility of collecting dried blood spots, which participants can provide remotely.

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

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

Section: Outcomes or Correlative Factors

Late mortality :
Second Malignancy :

Group: Health Behaviors

Tobacco :
Alcohol :
Physical activity :
Medical screening :
Other :
If other, please specify :

Group: Psychosocial

Insurance :
Marriage :
Education :
Employment :
Other :
If other, please specify :

Group: Medical Conditions

Hearing/Vision/Speech :
Hormonal systems :
Heart and vascular :
Respiratory :
Digestive :
Surgical procedures :
Brain and nervous system :
Other : **Primary**
If other, please specify : **Frailty will be calculated based on FU5 and FU6 survey responses.**

Group: Medications

Describe medications :

Group: Psychologic/Quality of Life

BSI-18 : **Correlative Factors**
SF-36 : **Secondary, Correlative Factors**
CCSS-NCQ : **Secondary**
PTS :
PTG :
Other :
If other, please specify :

Group: Other

Pregnancy and offspring :
Family history :
Chronic conditions (CTCAE v3) :
Health status :

Group: Demographic

Age :
Race :
Sex :
Other :
If other, please specify :

Group: Cancer treatment

Chemotherapy :
Radiation therapy :
Surgery :

Section: Anticipated Sources of Statistical Support

CCSS Statistical Center : **Yes**
Local institutional statistician :
If local, please provide the name(s) and contact information of the statistician(s) to be involved. :
Will this project utilize CCSS biologic samples? : **Yes**
If yes, which of the following? : **Other requiring collection of samples**
If other, please explain : **As described above, this project aims to evaluate the feasibility of collecting dried blood spots.**

Section: Other General Comments

Other General Comments :
I agree to share this information with St. Jude : **Yes**