**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: **Does sex mediate the relationship between treatment exposures and functional outcomes?**

Planned research population (eligibility criteria):

Anyone from the CCSS who completed the BSI, NCQ, and SF-36 as well as their siblings.

Proposed specific aims:

1. To examine the impact of sex on neurocognitive, emotional, and quality of life outcomes in survivors compared to siblings.
2. To determine whether sex mediates the effects of treatment exposures and/or chronic conditions on neurocognitive, emotional, and quality of life outcomes.
3. To describe mediation effects of sex on the relationship between neurocognitive/emotional function and psychosocial outcomes (e.g., educational attainment, employment, income).

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?:

**Group: 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.

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

Second Malignancy:  
Chronic Disease: Secondary
**Section: Outcomes or Correlative Factors**

Late mortality: Correlative Factors
Second Malignancy: Correlative Factors

**Group: Health Behaviors**
Tobacco: Correlative Factors
Alcohol:
Physical activity:
Medical screening:
Other:
If other, please specify:

**Group: Psychosocial**
Insurance:
Marriage: Primary
Education: Primary
Employment: Primary
Other:
If other, please specify:

**Group: Medical Conditions**
Hearing/Vision/Speech: Correlative Factors
Hormonal systems: Correlative Factors
Heart and vascular: Correlative Factors
Respiratory: Correlative Factors
Digestive:
Surgical procedures: Correlative Factors
Brain and nervous system: Correlative Factors
Other:
If other, please specify:

**Group: Medications**
Describe medications:
History of analgesics, antidepressants, or anti-anxiety medications.

**Group: Psychologic/Quality of Life**
BSI-18: Primary
SF-36: Primary
CCSS-NCQ: Primary
PTS:
PTG:
Other:
If other, please specify:
**Group: Other**

Pregnancy and offspring: Correlative Factors

Family history:

Chronic conditions (CTCAE v3): Correlative Factors

Health status: Correlative Factors

**Group: Demographic**

Age: Correlative Factors

Race: Correlative Factors

Sex: Correlative Factors

Other:

If other, please specify:

**Group: Cancer treatment**

Chemotherapy: Correlative Factors

Radiation therapy: Correlative Factors

Surgery: Correlative Factors

**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?: No

If yes, which of the following?:

If other, please explain:

**Section: Other General Comments**

Other General Comments:

Dr. Rachel Peterson is a postdoctoral fellow in Psychology at the Hospital for Sick Children in Toronto. She completed her residency training at St. Jude Children’s Research Hospital. Dr. Kim Edelstein, neuropsychologist at the Princess Margaret Cancer Centre, will mentor Dr. Peterson on this project.

I agree to share this information with St. Jude: Yes