**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: Integrating Technological Approaches for Pain Management in Adult Survivors of Childhood Cancer  
Planned research population (eligibility criteria):  
Adult survivors of childhood and adolescent cancer with chronic pain  
Proposed specific aims:  
Aim 1: Determine the efficacy of a digital health intervention to reduce pain among adult survivors of childhood and adolescent cancer.  
Aim 2: Evaluate the interaction effect of mobile neurofeedback (mNF) + Cancer Distress Coach app compared to mNF on pain and related outcomes.  
Aim 3: Identify moderators (e.g., participant characteristics) and mediators (e.g., self-efficacy) of intervention effects on pain outcomes.  
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? : June 2020 R01 submission to NCI

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

Additional self-reported information: Yes  
Biological samples: No  
Medical record data: No  
If yes to any of the above, please briefly describe. : We will collect outcome data (e.g., PROMIS pain measures, BSI-18, PCL5) from participants at multiple time points during the study period.
**Group: What CCSS Working Group(s) would likely be involved? (Check all that apply)**

Second Malignancy:
Chronic Disease:
Psychology / Neuropsychology: **Primary**
Genetics:
Cancer Control: **Secondary**
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:
If other, please specify:

**Group: Medications**

Describe medications:

**Group: Psychologic/Quality of Life**

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

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

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