**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: Prediction of Mortality Using Symptom Burden among Adult Survivors of Childhood Cancer  
Planned research population (eligibility criteria):  
1) Adult survivors of childhood cancer (aged >=18 years) at CCSS baseline survey  
2) Survivors enrolled in original cohort or expanded cohorts (if both are applicable)  
3) Completion of both baseline survey and one follow-up survey  
4) Surveys were self-reported by survivors  
Proposed specific aims:  
This study was funded by NCI R21 (I-Chan Huang/Kevin Krull) focusing on adult survivors of childhood cancer enrolled in both CCSS and SJLIFE. Our Aim 1 evaluated the prediction of 4 symptom clusters for the onset of chronic conditions. Aim 2 will evaluate the prediction of 4 symptom clusters for all-cause and cause-specific mortality.

Aim 1: Calculate all-cause and cause-specific risk-standardized mortality rate (RSMR) and absolute expected risk (AER) by 4 symptom clusters using baseline survey adjusting for age, sex and race/ethnicity.  
Aim 2: Test the effects of symptom clusters on all-cause and cause-specific mortality.  
Aim 3: Test the influence of socio-demographic (personal, neighborhood), lifestyle and treatment factors for the effect of symptom clusters on mortality.  
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? : This study has been funded by NCI R21 (I-Chan Huang/Kevin Krull).  

**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:
Psychology / Neuropsychology: Secondary
Genetics:
Cancer Control:
Epidemiology / Biostatistics: Primary

**Section: Outcomes or Correlative Factors**
Late mortality: Primary
Second Malignancy: Secondary

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

**Group: Psychosocial**
Insurance: Correlative Factors
Marriage: Correlative Factors
Education: Correlative Factors
Employment: Correlative Factors
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: Correlative Factors
Surgical procedures: Correlative Factors
Brain and nervous system: Correlative Factors
Other:
If other, please specify:

**Group: Medications**
Describe medications:

**Group: Psychologic/Quality of Life**
BSI-18: Correlative Factors
**Correlative Factors**

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

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

Aim 1 analysis has been done by Kumar Srivastava at St Jude, especially developing symptom cluster patterns. We request Kumar and Yutaka at St Jude to work on Aim 2.

- 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