

### **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 : **Impact of Aging and Modifiable Risk Factors on Late-Mortality Among Survivors of Childhood Cancer**

Planned research population (eligibility criteria) :

**All survivors eligible for CCSS 1970-1999**

Proposed specific aims :

**Aim 1: Describe the impact of aging on causes of late-mortality among childhood cancer survivors. To do this we will compare cumulative mortality (all-cause and cause-specific) conditioned on survival from diagnosis (10, 15, 20, 25, 30 and 35 years). We will also examine the impact of treatment on late-mortality conditioned on survival as the treatment related risk may change over time.**

**Aim 2: Examine the association between modifiable risk factors including lifestyle behaviors and cumulative mortality (all-cause and cause-specific) and standardized mortality ratios (all-cause and cause-specific). We will examine the impact of each behavior (smoking, alcohol intake, physical activity) and risk factor (BMI, hypertension, diabetes, dyslipidemia). This will be presented overall, and by attained age in 10 year increments (5-15 yrs, 16-25 yrs, 26-35 years, 36-45 years, 45+ years).**

**Aim 3: Examine interactions between these modifiable risk factors and both 1) treatment exposures and then 2) chronic conditions on cumulative mortality (all-cause and cause-specific) and standardized mortality ratios (all-cause and cause-specific). This will be presented overall, and by attained age in 10 year increments (5-15 yrs, 16-25 yrs, 26-35 years, 36-45 years, 45+ years).**

**Aim 4: Examine the added impact of treatment era on associations between modifiable risk factors and cumulative mortality.**

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**

Psychology / Neuropsychology : **Secondary**

Genetics :

Cancer Control :

Epidemiology / Biostatistics : **Primary**

**Section: Outcomes or Correlative Factors**

Late mortality : **Primary**

Second Malignancy :

**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 :

Education : **Correlative Factors**

Employment : **Correlative Factors**

Other : **Correlative Factors**

If other, please specify : **Income**

**Group: Medical Conditions**

Hearing/Vision/Speech :

Hormonal systems : **Correlative Factors**

Heart and vascular : **Correlative Factors**

Respiratory :

Digestive :

Surgical procedures :

Brain and nervous system :

Other :

If other, please specify :

**Group: Medications**

Describe medications :

**Group: Psychologic/Quality of Life**

BSI-18 :

SF-36 : **Correlative Factors**

CCSS-NCQ :

PTS :

PTG :

Other :

If other, please specify :

**Group: Other**

Pregnancy and offspring :

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 :

**Will work closely with Greg Armstrong to develop this concept.**

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