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 :
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 :
**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