Section: Contact Information

First Name: Eric
Last Name: Chow
Institution: Fred Hutchinson Cancer Research Center
Address 1: PO Box 19024, Mailstop M4-C308
City: Seattle
State/Province/Region: WA
Country: US
Zip/Postal Code: 98019
Phone Number: 2066677724
Email Address: ericchow@uw.edu

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: Overall and Cardiac-Specific Survival Following Serious Cardiovascular Events in Childhood Cancer Survivors

Planned research population (eligibility criteria):
CCSS baseline & expanded cohorts, and siblings. Data through FU5.

Proposed specific aims:
AIM 1: Among childhood cancer survivors (CCS) who self-report cardiomyopathy/heart failure (CHF), coronary artery disease (CAD), and stroke, assess the long-term survival following the respective diagnosis of these cardiovascular conditions compared with siblings with similar conditions.

Hypothesis: Overall survival in CCS following the development of one of these serious cardiovascular (CV) conditions will be lower compared with siblings affected by the same condition.

Hypothesis: Even after accounting for competing causes of death, cardiac-specific survival in CCS following the development of one of these serious CV conditions will remain lower in CCS vs. siblings affected by the same condition.

AIM 2: Among CCS affected by one of the serious CV conditions, overall survival and cardiac-specific survival will be differentially influenced by prior cancer
treatment exposures.

Hypothesis: Compared with CCS without a history of radiation (to head, neck, or chest) or anthracycline chemotherapy, those exposed will have lower overall survival and cardiac-specific survival.

Hypothesis: Compared with siblings, CSS without a history of radiation (to head, neck, or chest) or anthracycline chemotherapy will have similar cardiac-specific survival.

Exploratory: Based on the chronic condition CTCAE grading system, describe and compare the latency and timing of CHF (grades 2-5), CAD (grades 3-5), and stroke (grades 4-5) progression from lower to higher grades among CCS and siblings.

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:**

**Employment:**

**Other:**

If other, please specify:

**Group: Medical Conditions**

Hearing/Vision/Speech:

Hormonal systems:

Heart and vascular: **Primary**

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:

CCSS-NCQ:

PTS:

PTG:

Other:

If other, please specify:

**Group: Other**

Pregnancy and offspring:

Family history:

Chronic conditions (CTCAE v3): **Primary**

Health status:

**Group: Demographic**

Age: **Correlative Factors**

Race: **Correlative Factors**

Sex: **Correlative Factors**

Other:

If other, please specify:

**Group: Cancer treatment**
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:
It is possible that the number of siblings affected by the target CV conditions will be too few to allow for stable estimates / comparisons. If that is the case, then we can discuss whether the AOI should be withdrawn or wait until FU7 data become available. It is possible that a survivor-only analysis could still be done, but lack of a non-cancer comparison group may dilute its impact.
I agree to share this information with St. Jude: Yes