Section: Contact Information
First Name: Arin
Last Name: Madenci
Institution: Boston Children's Hospital
Address 1: 300 Longwood Ave
City: Boston
State/Province/Region: MA
Country: US
Zip/Postal Code: 02115
Phone Number: 617-355-4503
Alternate Phone Number:
Email Address: Arin.Madenci@childrens.harvard.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: Childhood Surgery and Post-Traumatic Stress Disorder Symptoms Among Survivors of Childhood Cancer
Planned research population (eligibility criteria):
We will include all childhood cancer survivors in the CCSS original cohort (diagnosed 1970-86) who completed the 2003 (FU2) follow-up survey.
Proposed specific aims:
Specific aim 1:
To compare the frequency of post-traumatic stress disorder (PTSD) symptoms among childhood cancer survivors who did and did not undergo surgery as cancer treatment.
Hypothesis 1: Survivors who underwent surgery as cancer treatment have a significantly increased number of PTSD symptoms, compared to survivors who do not undergo surgery.

Specific aim 2:
To define the association between age at surgery and number of PTSD symptoms among childhood cancer survivors.
Hypothesis 2: Among childhood cancer survivors who underwent surgery as cancer treatment, PTSD symptoms are significantly associated with age at surgery.
Specific aim 3:
To define the association between sex and number of PTSD symptoms among childhood cancer survivors who undergo surgery.
Hypothesis 3: Among childhood cancer survivors who underwent surgery as cancer treatment, PTSD symptoms are significantly associated with female sex.

Specific aim 4:
To define risk factors for number of PTSD symptoms among childhood cancer survivors who undergo surgery.
Hypothesis 4: Among childhood cancer survivors who undergo surgery as cancer treatment, certain risk factors are significantly associated with PTSD symptoms.

Specific aim 5:
To define the association between surgery and post-traumatic growth among childhood cancer survivors.
Hypothesis 5: Childhood cancer survivors who underwent surgery as cancer treatment are significantly more likely to have post-traumatic growth, compared to survivors who did not undergo surgery as cancer treatment.

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? : N/A

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

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

**Group: Health Behaviors**
Tobacco : Correlative Factors
Alcohol: Correlative Factors
Physical activity:
Medical screening:
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:
Hormonal systems:
Heart and vascular:
Respiratory:
Digestive:
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:
SF-36:
CCSS-NCQ:
PTS: Primary
PTG: Secondary
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: Yes
If local, please provide the name(s) and contact information of the statistician(s) to be involved.:
Arin Madenci (in conjunction with CCSS analysts and with support from Harvard T.H. Chan School of Public Health faculty)
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:
This project has been discussed with Kevin Krull over the last several months.