**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: Patterns of motor and sensory neuropathy and associated outcomes in long term survivors of childhood cancer

Planned research population (eligibility criteria) :  
The study population will consist of all CCSS cases (diagnosed 1970-1999) who were alive and completed the CCSS Baseline survey as well as the sibling comparison group. A subset analysis will require that cases also complete at least one Follow-up survey.

Proposed specific aims:

Aim 1: To determine the prevalence and patterns of motor and sensory neuropathy in CCSS cases overall, and by diagnosis in comparison to the sibling group.

Aim 2: To determine patient and treatment characteristics associated with motor and sensory neuropathy in CCSS cases.

Aim 3: To determine the association of sensory and motor neuropathy with the following:
- Sedentary levels of physical activity
- Use of pharmacologic (i.e. analgesics, neuromodulators, muscle relaxants) and non-pharmacologic (i.e. physical therapy) therapeutic interventions
- Psychosocial outcomes (i.e. anxiety, depression)
- Employment among adult CCSS cases, including employment status, sick days
per year, and income
Aim 4: To determine longitudinal patterns in the severity of motor and sensory neuropathy in the subset of CCSS cases who have at least one completed Follow-up Survey

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 : Yes
If yes to any of the above, please briefly describe: Yes, chemotherapy type and cumulative dose

Group: What CCSS Working Group(s) would likely be involved? (Check all that apply)
Second Malignancy :
Chronic Disease : Primary
Psychology / Neuropsychology : Secondary
Genetics :
Cancer Control : Secondary
Epidemiology / Biostatistics :

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

Group: Health Behaviors
Tobacco :
Alcohol :
Physical activity : Secondary
Medical screening :
Other : Secondary
If other, please specify: physical therapy

Group: Psychosocial
Insurance : Secondary
Marriage :
Education : Secondary
Employment : Secondary
Other :
If other, please specify :

Group: Medical Conditions
Hearing/Vision/Speech:
Hormonal systems:
Heart and vascular:
Respiratory:
Digestive:
Surgical procedures:
Brain and nervous system: Primary
Other:
If other, please specify:

**Group: Medications**
Describe medications:
analgesics, neuromodulators, muscle relaxants

**Group: Psychologic/Quality of Life**
BSI-18: Secondary
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: Correlative Factors
If other, please specify:

**Group: Cancer treatment**
Chemotherapy: Correlative Factors
Radiation therapy: Correlative Factors
Surgery:

**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:

I am starting my 2nd year of pediatric hematology-oncology fellowship and will have 2 dedicated research years without clinical responsibilities to focus on this project. I will be working with Dr. Nina Kadan-Lottick as a mentor ([Nina.kadan-lottick@yale.edu](mailto:Nina.kadan-lottick@yale.edu)).

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