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: Radiotherapy- and chemotherapy-related risks of thyroid cancer among childhood cancer survivors

Planned research population (eligibility criteria):
Participants in CCSS who were originally diagnosed during 1970-1999

Proposed specific aims:
1. Quantify the magnitude and shape of the dose-response relationship for thyroid cancer risk after childhood cancer associated with radiation dose to the thyroid and specific chemotherapeutic agents.
2. Evaluate whether treatment-related thyroid cancer risks estimated in Aim 1 are modified by patient demographics (e.g., age at exposure, sex, and attained age), other treatment exposures (e.g., splenectomy, radiation dose to the pituitary gland), or other cancer risk factors (e.g., body mass index, other endocrinopathies).

Will the project require non-CCSS funding to complete? Yes
If yes, what would be the anticipated source(s) and timeline(s) for securing funding?: This project will be supported by the Intramural Research Program of the National Cancer Institute. Funds are available.

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)
Section: Outcomes or Correlative Factors

Late mortality:

Second Malignancy: Primary

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

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

Group: Medical Conditions
Hearing/Vision/Speech:
Hormonal systems: Correlative Factors
Heart and vascular:
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: Correlative Factors
- Family history: Correlative Factors
- Chronic conditions (CTCAE v3): Correlative Factors
- Health status:

**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:
- Local institutional statistician: Yes
  
  If local, please provide the name(s) and contact information of the statistician(s) to be involved.:
  Sara Schonfeld (schonfes@mail.nih.gov)

- 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:
- We propose to build an interdisciplinary research team including investigators from NCI and CCSS with appropriate expertise.
- I agree to share this information with St. Jude: Yes