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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: Vascular effects of cranial radiation therapy
Planned research population (eligibility criteria): Case cohort study of patients with self reported first stroke and control group
Proposed specific aims: Aim 1: Determine whether increased stroke risk in childhood cancer survivors is due to radiation-induced vasculopathies (large or small vessel) and if that risk is further increased by modifiable, atherosclerotic risk factors. Aim 2: Determine the prevalence and risk factors of cerebral microbleeds in childhood cancer survivors (with and without stroke) and whether the presence of such cerebral microbleeds is associated with impaired neuro-cognitive function.
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?: R01 application; June or October 2014 deadline

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.: CCSS participants with self reported stroke and controls would be contacted and invited to come to dedicated research centers for additional imaging and neuro-cognitive testing.

What CCSS Working Group(s) would likely be involved? (Check all that apply)

Second Malignancy:
Chronic Disease: Secondary
Psychology / Neuropsychology: Primary
Genetics:
Cancer Control:
Epidemiology / Biostatistics: Secondary

To describe the anticipated scope of the study, please indicate the specific CCSS data to be included as outcome (primary or secondary) or correlative factors. (Check all that apply)

Late mortality: Correlative Factors
Second Malignancy:

Health Behaviors

Tobacco: Correlative Factors
Alcohol:
Physical activity: Correlative Factors
Medical screening:
Other:
If other, please specify:

Psychosocial

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

Medical conditions

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

Medications

Describe medications:

Pregnancy and offspring:
Family History: Correlative Factors

Psychologic/Quality of Life

BSI-18:
SF-36:
CCSS-NCQ:
PTS:
PTG:
Other:
If other, please specify:

Chronic conditions (CTCAE v3): Correlative Factors
Health status:

Demographic

Age: Correlative Factors
Race: Correlative Factors
Sex: Correlative Factors
Others:
If others, please specify:

Cancer treatment

Chemotherapy: Correlative Factors
Radiation therapy: Correlative Factors
Surgery:

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?

Buccal cell DNA:

Peripheral blood:

Lymphoblastoid cell lines:

Second malignancy pathology samples:

Other requiring collection of samples:

If other, please explain:

Other general comments: Kevin Krull has been involved in the idea/design of this proposal.