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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: Pooled international study of radiation-related intracranial tumors of the brain and nervous system

Planned research population (eligibility criteria): Populations exposed to radiation from medical and military (atomic bomb) sources for whom individual radiation dose estimates are available. For CCSS, this would include persons who were in the 2006 JNCI paper by Neglia et al. (JNCI 2006;98:1528-37. Other populations include childhood cancer survivor cohorts from Europe, populations irradiated for benign conditions of the head or neck, persons exposed to diagnostic radiation (CT scans) and atomic bomb survivors.
Proposed specific aims: 1. Describe radiation dose-response for malignant and benign tumors of the brain and nervous system. 2. Describe modifying effects of age at exposure, gender, time since exposure, attained age, and dose fractionation. 3. Describe effects of chemotherapy, as applicable.

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?:

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.:

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

Second Malignancy: Primary

Chronic Disease:

Psychology / Neuropsychology:

Genetics:

Cancer Control:

Epidemiology / Biostatistics:

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:

Second Malignancy: Primary

Health Behaviors

Tobacco:

Alcohol:

Physical activity:

Medical screening:

Other:

If other, please specify:

Psychosocial

Insurance:

Marriage:

Education:

Employment:

Other:

If other, please specify:

Medical conditions

Hearing/Vision/Speech:

Hormonal systems:

Heart and vascular:

Respiratory:

Digestive:

Surgical procedures:

Brain and nervous system: Primary

Other:

If other, please specify:

Medications

Describe medications:

Pregnancy and offspring:
Family History:

Psychologic/Quality of Life

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

Chronic conditions (CTCAE v3):
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:
Local institutional statistician: Yes
If local, please provide the name(s) and contact information of the statistician(s) to be involved.: Dr. Dale Preston, former chair of the Department of Statistics at the Radiation Effects Research Foundation in Japan, now a contractor at NCI.
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: