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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: The Impact of Vision Loss Among Childhood Survivors of Central Nervous System Astroglial Tumors

Planned research population (eligibility criteria): Participants in this study will be survivors of CNS astroglial tumors contained in the CCSS cohort. Survivors with CNS second malignant neoplasms that are not astroglial in origin will be excluded.

Proposed specific aims: (1) Evaluate the psychological effects of vision loss among survivors of astrocytoma. Hypothesis: In a cross-sectional analysis, health-related quality of life and life satisfaction will be decreased among survivors of astrocytoma with vision loss compared to those without vision loss, but psychological distress will show no difference between groups. (2) Examine the socioeconomic effects of vision loss among survivors of astrocytoma. Hypothesis: In a cross-sectional analysis, survivors of astrocytoma with vision loss will have a decreased educational level and mean income, as well as a lower proportion employed and living independently compared to survivors of astrocytoma without vision loss. (3) Describe differences in socioeconomic and psychological outcomes between survivors with childhood-onset and adult-onset vision loss among childhood survivors of astrocytomas. Hypothesis: Adaptation to visual impairments will allow survivors of astrocytoma with childhood vision loss to have less detrimental effect on income, proportion employed and health-related quality of life relative to survivors with adult vision loss. (4) Explore potential factors associated with childhood-onset and adult-onset vision loss among childhood survivors of astrocytomas. Hypothesis: Age at diagnosis, neurofibromatosis positive status and chemotherapy will be associated with childhood-onset vision loss. Radiation therapy will be associated with adult-onset vision loss.

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:
Chronic Disease: Secondary
Psychology / Neuropsychology: Primary
Genetics:
Cancer Control: Secondary
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: Correlative Factors

Health Behaviors

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

Psychosocial

Insurance: Secondary
Marriage: Secondary
Education: Secondary
Employment: Secondary
Other: Secondary
If other, please specify: Income, Independent living

Medical conditions

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

Medications

Describe medications:

Pregnancy and offspring:
Family History:

Psychologic/Quality of Life

BSI-18: Primary
SF-36: Primary
CCSS-NCQ:
PTS:
PTG:
Other: Primary
If other, please specify: Cantril Ladder of Life

Chronic conditions (CTCAE v3):
Health status:

Demographic

Age: Correlative Factors
Race: Correlative Factors
Sex: Correlative Factors
Others: Correlative Factors
If others, please specify: age at initial diagnosis

Cancer treatment

Chemotherapy: Correlative Factors
Radiation therapy: Correlative Factors
Surgery: Correlative Factors

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: