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Project Title Adverse neurologic sequelae are predictors of poor outcome in survivors of childhood central nervous system tumors and leukemia: A Report from the Childhood Cancer Survivor Study
Planned research population (eligibility criteria) All participants in the CCSS diagnosed with a CNS malignancy or acute lymphocytic leukemia. Entire sibling cohort will be used as controls
Proposed specific aims Primary aim: To determine if patients diagnosed with a CNS tumor or leukemia during childhood who experience adverse neurologic sequelae such as stroke, seizure, second malignant neoplasm, neurosensory deficits or motor impairment are at incerased risk for poor outcome, assessed as: mortality, self-reported health status, medical complications, late recurrence, education, employment, imcome, marriage status, and psychological health
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 - No Secondary - No

Chronic Disease
Primary - No Secondary - No

Reproductive
Primary - No Secondary - No

Neurologic
Primary - Yes Secondary - No

Psychology / Neuropsychology
Primary - No Secondary - Yes

Genetics
Primary - No Secondary - No

Cancer Control

Primary - No Secondary - No

Epidemiology / Biostatistics
Primary - No Secondary - No

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
Primary - Yes Secondary - No Correlative Factors - No

Second Malignancy
Primary - No Secondary - No Correlative Factors - Yes

Health Behaviors

Tobacco
Primary - No Secondary - No Correlative Factors - No

Alcohol
Primary - No Secondary - No Correlative Factors - No

Physical activity
Primary - No Secondary - No Correlative Factors - No

Medical screening
Primary - No Secondary - No Correlative Factors - No

Other
Primary - No Secondary - No Correlative Factors - No

If other, please specify

Psychosocial

Insurance
Primary - No Secondary - Yes Correlative Factors - No

Marriage
Primary - No Secondary - Yes Correlative Factors - No

Education
Primary - No Secondary - Yes Correlative Factors - No

Employment
Primary - No Secondary - Yes Correlative Factors - No

Other
Primary - No Secondary - No Correlative Factors - No

If other, please specify

Medical conditions

Hearing/Vision/Speech
Primary - No | Secondary - No | Correlative Factors - Yes

Hormonal systems
Primary - No | Secondary - No | Correlative Factors - No

Heart and vascular
Primary - No | Secondary - No | Correlative Factors - No

Respiratory
Primary - No | Secondary - No | Correlative Factors - No

Digestive
Primary - No | Secondary - No | Correlative Factors - No

Surgical procedures
Primary - No | Secondary - No | Correlative Factors - No

Brain and nervous system
Primary - No | Secondary - No | Correlative Factors - Yes

Other
Primary - No | Secondary - No | Correlative Factors - No

If other, please specify seizure, stroke, motor impairment as correlative factors, medical complications and late recurrence as primary outcome

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Medications

Describe medications antiepileptic drugs, aspirin

Pregnancy and offspring
Primary - No | Secondary - No | Correlative Factors - No

Family History
Primary - No | Secondary - No | Correlative Factors - No

Psychologic/Quality of Life

BSI-18
Primary - No | Secondary - Yes | Correlative Factors - No

SF-36
Primary - No | Secondary - No | Correlative Factors - No

CCSS-NCQ
Primary - No | Secondary - No | Correlative Factors - No

PTS
Primary - No | Secondary - No | Correlative Factors - No

PTG
Primary - No | Secondary - No | Correlative Factors - No

Other
Primary - No | Secondary - No | Correlative Factors - No

If other, please specify

Chronic conditions (CTCAE v3)
Primary - Yes | Secondary - No | Correlative Factors - No

Health status
Primary - Yes | Secondary - No | Correlative Factors - No

Demographic

Age
Primary - No | Secondary - No | Correlative Factors - Yes

Race
Primary - No | Secondary - No | Correlative Factors - Yes

Sex
Primary - No | Secondary - No | Correlative Factors - Yes

Others
Primary - No | Secondary - No | Correlative Factors - No

If others, please specify

Cancer treatment

Chemotherapy
Correlative Factors - Yes

Radiation therapy
Correlative Factors - Yes

Surgery
Correlative Factors - Yes

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 Has been discussed within the Neurology Working Group