Received 4/22/2011
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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

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Project Title: Changes in Body Mass Index Among Adult Survivors of Childhood Central Nervous System Tumors: A Report From the Childhood Cancer Survivor Study
Planned research population (eligibility criteria): 1. Survivors and siblings who completed the baseline and follow-up questionnaires as well as reported height and weight data at baseline and follow up 2. Survivors who were diagnosed with primary brain/spinal cord tumors and acute lymphoblastic leukemia. Based on the ICDO codes included in the CCSS
Proposed specific aims: Aim 1: To build the multivariate linear mixed models (SAS PROC Mixed) and perform the test to identify risk factors that many influence the changes in BMI between baseline and follow-up for survivors of CNS tumors stratified by gender. Possible risk factors being considered are age at diagnosis, age at questionnaire, gender, race/ethnicity, educational level, family income, physical activity, alcohol consumption, chemotherapy, cranioradiation therapy, surgery, growth hormone deficiency, BSI depression, BSI somatic distress, BSI anxiety, and use of antidepressant, and anti-psychotic drugs. Aim 2: Further stratification analysis will be conducted of the above multivariate linear mixed models among subgroups by age at diagnosis and treatment types. Aim 3: To compare the changes in BMI and possible risk factors including age at diagnosis, age at questionnaire, gender, race/ethnicity, education level, family income, physical activity, alcohol consumption, chemotherapy, cranioradiation therapy, surgery, growth hormone deficiency, BSI derepression, BSI somatic distress, BSI anxiety, use of antidepressant and anti-psychotic drugs between survivors of CNS

tumors and survivors of ALL. Aim 4: To compare the changes in BMI and possible risk factors as outlined above between survivors of CNS tumors and sibling controls.
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: Primary
Psychology / Neuropsychology: Secondary
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:

Health Behaviors

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

Psychosocial

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

Medical conditions

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

Medications

Describe medications: antidepressant and anti-psychotic medications-corrleative factors

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Pregnancy and offspring:
Family History:

Psychologic/Quality of Life

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

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

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: Correlative Factors

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.: Name: Wenyaw Chan PhD Professor of Biostatistics, Dept. of Biostatistics, University of Texas Houston, School of Public Health, Houston, TX Wenyaw.Chan@uth.tmc.edu Phone 713-500-9321.
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: