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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 the Sibling Sociodemographic and Health Factors on Psychological Outcomes of Childhood Cancer Survivors

Planned research population (eligibility criteria): The proposed analyses will utilize data which was collected between 1994 and 1998 via a 24-page self-report baseline questionnaire. We will utilize data collected from healthy adult (greater than or equal to 18 years of age at time of responding to baseline questionnaire) siblings of childhood cancer survivors (n = 3,899) and their matched survivors. Of the participating siblings, these analyses will utilize those who were > 18 years of age at the time of completion of the baseline questionnaire resulting in data from 3,083 siblings (and their respective survivors).

Proposed specific aims: Aim 1: To identify the predictors of psychological distress among adult survivor of childhood cancer with a focus on siblings' sociodemographic factors, current physical, and mental health status in a cohort of siblings and matched survivors. Hypothesis 1: Siblings factors including marital status (i.e., being married), employment status (i.e., being employed), parental status (i.e. being a parent), family structure (i.e., multiple siblings in family), poor health status (i.e., self-reported adverse health, presence of chronic health conditions) and poor mental health status (i.e., psychological distress as measured by the BSI-18) will be associated with increased psychological distress as measured by the BSI-18 among survivors of childhood cancer. Aim 2: To identify the predictors of psychological distress among adult survivor of childhood cancer with a focus on siblings' age, gender, and residence in relation to the age, gender, and residence of their matched survivors. Hypothesis 2: Sibling gender in relation to their survivor gender (i.e., female sibling and female survivor), sibling age in relation to their survivor age (i.e., sibling younger and survivor older), and sibling residence in relation to

their survivor (i.e., both sibling and survivor living with parents) will be associated with decreased psychological distress as measured by the BSI-18 among survivors of childhood cancer.

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:

Psychology / Neuropsychology: Primary

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:

Physical activity:

Medical screening:

Other:

If other, please specify:

Psychosocial

Insurance:

Marriage: Correlative Factors

Education:

Employment: Correlative Factors

Other:

If other, please specify: The main effect variables to be assessed include sibling marital status,

employment status, parent status (sibling baseline question M.4 and M.11), and family structure (sibling baseline question A.7)

Medical conditions

Hearing/Vision/Speech:

Hormonal systems:

Heart and vascular:

Respiratory:

Digestive:

Surgical procedures:

Brain and nervous system:

Other:

If other, please specify:

Medications

Describe medications:

Pregnancy and offspring:

Family History:

Psychologic/Quality of Life

BSI-18: Primary

SF-36:

CCSS-NCQ:

PTS:

PTG:

Other:

If other, please specify: The primary outcome measures will focus on the GSI and subscales of the BSI-18 as reported by the childhood cancer survivor. Main effect variables will include sibling health status/chronic conditions , sibling psychological distress (BSI-18),

Chronic conditions (CTCAE v3): Correlative Factors

Health status: Correlative Factors

Demographic

Age: Correlative Factors

Race:

Sex: Correlative Factors

Others: Correlative Factors

If others, please specify: Main effect variables will also include sibling sex, age, and residence (sibling baseline question A.9) in relation to survivor sex, age, and residence.

Cancer treatment

Chemotherapy:

Radiation therapy:

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: We will also control for potential confounding variables such as survivor sex, race/ethnicity, marital status, educational attainment, income, employment status, and current age.