Section: Contact Information
First Name: Rebecca
Last Name: Ronsley
Institution: Nationwide Children’s Hospital
Address 1: Nationwide Children’s Hospital, Faculty Office Building, 4th Floor
Address 2: 700 Children’s Drive
City: Columbus
State/Province/Region: OH
Country: United States
Zip/Postal Code: 43205
Phone Number: (614) 355-1848
Alternate Phone Number:
Email Address: rebecca.ronsley@nationwidechildrens.org

Section: Project Requirements and Description
Group: 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: Endocrine Late Effects in Survivors of Childhood Brain Tumors: A Report from the Childhood Cancer Survivor Study
Planned research population (eligibility criteria): Survivors of childhood cancer treated for any central nervous system malignancy (glioma, medulloblastoma, ependymoma, other embryonal tumor, CNS germ cell tumor, pineoblastoma) prior to age 21 in the entire CCSS cohort
Proposed specific aims:
1. To describe the endocrine outcomes (primary gonadal dysfunction, the metabolic syndrome, obesity, insulin resistance/diabetes mellitus, dyslipidemia, hypopituitarism, central hypothyroidism, adrenal insufficiency, growth hormone deficiency, central gonadotropin deficiency, primary hypo or hyperthyroidism) in survivors of childhood central nervous system (CNS) tumors.
2. To correlate the risk of endocrinopathies with age of cancer treatment (<5 years, 5-10 years, >10 years), chemotherapy and radiation therapy administered in survivors of childhood CNS malignancies.

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?:

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

Second Malignancy: 
Chronic Disease: **Primary**
Psychology / Neuropsychology: 
Genetics: 
Cancer Control: 
Epidemiology / Biostatistics: 

**Section: Outcomes or Correlative Factors**

Late mortality: **Primary,Secondary,Correlative Factors**

**Group: Health Behaviors**

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

**Group: Psychosocial**

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

**Group: Medical Conditions**

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

**Group: Medications**

Describe medications: 
**Estrogen supplement**
Progesterone and analogs 
Testosterone/androgen supplements 
Fertility medications (for example, use of clomiphene) 
Levotyroxine or other thyroid hormone replacement 
Glucocorticoids, mineralocorticoids, or other steroid analog/replacement
Vasopressin or DDAVP
Insulin
Metformin or other insulin sensitizing agent

**Group: Psychologic/Quality of Life**
BSI-18 :
SF-36 :
CCSS-NCQ :
PTS :
PTG :
Other :
If other, please specify :

**Group: Other**
Pregnancy and offspring : Primary,Secondary,Correlative Factors
Family history :
Chronic conditions (CTCAE v3) : Primary,Secondary,Correlative Factors
Health status : Primary,Secondary,Correlative Factors

**Group: Demographic**
Age : Primary
Race : Primary
Sex : Primary
Other :
If other, please specify :

**Group: Cancer treatment**
Chemotherapy : Correlative Factors
Radiation therapy : Correlative Factors
Surgery : Correlative Factors

**Section: 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? :
If other, please explain :

**Section: Other General Comments**
Other General Comments :
Building on work by Moustoufi-Moab and colleagues (Mostoufi-Moab et al JCO 2016) this proposal will describe endocrine outcomes in a disease-focused group of CNS tumor survivors using the expanded CCSS cohort. Furthermore, we will explore the association between treatment factors and age of treatment with endocrine outcomes using age cut-offs that represent relevant stages of HPA/G axis maturation.
I agree to share this information with St. Jude : Yes