

Section: Contact Information

First Name : **David**

Last Name : **Noyd**

Institution : **Duke University**

Address 1 : **2404 Faucette Ave**

Address 2 :

City : **Durham**

State/Province/Region : **NC**

Country : **US**

Zip/Postal Code : **27704**

Phone Number : **503-507-2191**

Alternate Phone Number :

Email Address : david.noyd@duke.edu

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 : **Disparities in Cardiovascular Outcomes among Childhood Cancer Survivors**

Planned research population (eligibility criteria) :

For Aims 1 and 2, our planned research population will be all CCSS participants in the original and expanded cohorts with completed data for race or ethnicity, socioeconomic status, as well as cardiovascular risk factors and cardiac events.

For Aim 3, our planned research population will be all CCSS participants in the original and expanded cohorts with completed data for race or ethnicity, socioeconomic status, as well as cardiovascular risk factors and cardiac events and matched sibling.

Proposed specific aims :

Using data from the Childhood Cancer Survivorship Study (CCSS), we will:

1) Quantify the prevalence of cardiovascular risk factors (hypertension, dyslipidemia, diabetes, and obesity), the incidence of cardiac events (coronary artery disease, heart failure, valvular disease, and arrhythmia), and determine if there are disparities in these outcomes between different ethnic groups among childhood cancer survivors.

Hypothesis: Hispanics and Non-Hispanic Black childhood cancer survivors have an increased prevalence of cardiovascular risk factors and an increased incidence of cardiac events compared to Non-Hispanic White childhood cancer survivors.

2) Among childhood cancer survivors, use multivariable logistic regression modeling to compare the distribution of demographic, lifestyle, and treatment exposure variables between survivors with cardiac events and survivors without cardiac events.

Hypothesis: Ethnicity and socioeconomic status are independently associated with cardiac events among childhood cancer survivors.

3) Use matched siblings to control for potential confounders and quantify the excess attributable risk of cardiovascular outcomes for childhood cancer and related treatment among ethnic minorities compared to Non-Hispanic White childhood cancer survivors. Hypothesis: Among minority childhood cancer survivors, there will be excess attributable risk of cardiovascular outcomes than expected for both their ethnicity and their primary childhood cancer and related treatment.

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 : **Secondary**

Cancer Control : **Secondary**

Epidemiology / Biostatistics : **Secondary**

Section: Outcomes or Correlative Factors

Late mortality : **Secondary**

Second Malignancy :

Group: Health Behaviors

Tobacco : **Correlative Factors**

Alcohol : **Correlative Factors**

Physical activity : **Correlative Factors**

Medical screening :

Other :

If other, please specify :

Group: Psychosocial

Insurance : **Correlative Factors**

Marriage : **Correlative Factors**

Education : **Correlative Factors**

Employment : **Correlative Factors**

Other : **Correlative Factors**

If other, please specify :

Group: Medical Conditions

Hearing/Vision/Speech :

Hormonal systems :

Heart and vascular : **Primary**

Respiratory :

Digestive :
Surgical procedures :
Brain and nervous system :
Other :
If other, please specify :

Group: Medications

Describe medications :
Antihypertensive medications (if available)

Group: Psychologic/Quality of Life

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

Group: Other

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

Group: Demographic

Age : **Correlative Factors**
Race : **Correlative Factors**
Sex : **Correlative Factors**
Other :
If other, please specify :

Group: Cancer treatment

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

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 :
I agree to share this information with St. Jude : **Yes**

