

Section: Contact Information

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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 : **Developing a clinical and genetic risk prediction model for diabetes mellitus among survivors of childhood cancer**

Planned research population (eligibility criteria) :

Proposed specific aims :

Will the project require non-CCSS funding to complete? : **Yes**

If yes, what would be the anticipated source(s) and timeline(s) for securing funding? :

We do anticipate applying for additional funding. Specifically, we are targeting the V Foundation and NCI PA-17-239 (R01 for Secondary Analysis and Integration of Existing Data to Elucidate the Genetic Architecture of Cancer Risk and Related Outcomes).

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 : **Secondary**

Psychology / Neuropsychology :

Genetics : **Primary**

Cancer Control :

Epidemiology / Biostatistics : **Secondary**

Section: Outcomes or Correlative Factors

Late mortality :

Second Malignancy :

Group: Health Behaviors

Tobacco : **Secondary, Correlative Factors**

Alcohol : **Correlative Factors**

Physical activity : **Correlative Factors**

Medical screening : **Primary**

Other :

If other, please specify :

Group: Psychosocial

Insurance :

Marriage :

Education : **Correlative Factors**

Employment : **Correlative Factors**

Other :

If other, please specify :

Group: Medical Conditions

Hearing/Vision/Speech :

Hormonal systems : **Correlative Factors**

Heart and vascular : **Correlative Factors**

Respiratory :

Digestive :

Surgical procedures :

Brain and nervous system :

Other : **Primary, Secondary**

If other, please specify : **Diabetes mellitus (primary), body mass index (secondary)**

Group: Medications

Describe medications :

Medications for diabetes/insulin resistance, hypertension, and dyslipidemia

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) :

Health status : **Correlative Factors**

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 : **Correlative Factors**

Section: 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. :

Dr. Melissa Richard (Melissa.Richard@bcm.edu) will lead the analysis. She has extensive experience in analyzing cardiometabolic traits in large cohorts, including CHARGE. Additionally, she is currently working with the PI of this project (Dr. Philip Lupo) on the CCSS GWAS of diabetes.

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 :

This project will be an extension of the currently approved CCSS diabetes genome-wide association study (GWAS). Specifically, we plan to generate a clinical risk prediction model using factors that have been identified in previous CCSS manuscripts (e.g., Meacham et al., 2009 and Mostoufi-Moab et al., 2016) and determine model improvement based on the inclusion of a genetic risk score derived from the GWAS. Notably, both Drs. Meacham and Mostoufi-Moab will be collaborators on this project.

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