

First Name Daniel
Last Name Green
Institution St. Jude Children's Research Hospital
Address 1 Department of Epidemiology and Cancer Control
Address 2 262 Danny Thomas Place, Mail Stop 735
City Memphis
State/Province Tennessee
Country USA
Zip 38105
Phone 901-595-5915
Alternate Phone
Email daniel.green@stjude.org

Project Title Polymorphisms of Cardiomyocyte Genes in CCSS Participants with Congestive Heart Failure or Subclinical Left Ventricular Dysfunction After Treatment with Anthracyclines
Planned research population (eligibility criteria) CCSS participants who have verified congestive heart failure, were treated with anthracyclines, and have a buccal cell DNA specimen available in the CCSS Biological Specimens Bank.

Proposed specific aims The primary aim of this proposal is to determine if the frequency of polymorphisms in one or more genes known to be associated with familial dilated cardiomyopathy is increased in patients with impaired left ventricular function related to anthracycline treatment. Primary hypothesis: We hypothesize that the frequency of one or more polymorphisms in genes known to be associated with familial dilated cardiomyopathy will be increased in patients with anthracycline-related congestive heart failure.

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 Yes

Biological Samples Yes

Medical record data No

If yes to any of the above, please briefly describe. Confirmation of self-reported CHF in 2007 follow-up using previously developed scripts; review of medical records pertaining to the reported CHF.

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

Second Malignancy

Primary - No

Secondary - No

Chronic Disease

Primary - No

Secondary - Yes

Reproductive

Primary - No

Secondary - No

Neurologic

Primary - No

Secondary - No

Psychology / Neuropsychology

Primary - No

Secondary - No

Genetics

Primary - Yes Secondary - No

Cancer Control

Primary - No Secondary - No

Epidemiology / Biostatistics

Primary - No Secondary - No

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

Primary - No Secondary - No Correlative Factors - No

Second Malignancy

Primary - No Secondary - No Correlative Factors - No

Health Behaviors

Tobacco

Primary - No Secondary - No Correlative Factors - Yes

Alcohol

Primary - No Secondary - No Correlative Factors - Yes

Physical activity

Primary - No Secondary - No Correlative Factors - Yes

Medical screening

Primary - No Secondary - No Correlative Factors - No

Other

Primary - No Secondary - No Correlative Factors - No

If other, please specify

Psychosocial

Insurance

Primary - No Secondary - No Correlative Factors - No

Marriage

Primary - No Secondary - No Correlative Factors - No

Education

Primary - No Secondary - No Correlative Factors - No

Employment

Primary - No Secondary - No Correlative Factors - No

Other

Primary - No Secondary - No Correlative Factors - No

If other, please specify

Medical conditions

Hearing/Vision/Speech

Primary - No Secondary - No Correlative Factors - No

Hormonal systems

Primary - No Secondary - No Correlative Factors - No

Heart and vascular

Primary - No Secondary - No Correlative Factors - No

Respiratory

Primary - No Secondary - No Correlative Factors - No

Digestive

Primary - No Secondary - No Correlative Factors - No

Surgical procedures

Primary - No Secondary - No Correlative Factors - No

Brain and nervous system

Primary - No Secondary - No Correlative Factors - No

Other

Primary - No Secondary - No Correlative Factors - No

If other, please specify

Medications

Describe medications

Pregnancy and offspring

Primary - No Secondary - No Correlative Factors - No

Family History

Primary - No Secondary - No Correlative Factors - No

Psychologic/Quality of Life

BSI-18

Primary - No Secondary - No Correlative Factors - No

SF-36

Primary - No Secondary - No Correlative Factors - No

CCSS-NCQ

Primary - No Secondary - No Correlative Factors - No

PTS

Primary - No Secondary - No Correlative Factors - No

PTG

Primary - No

Secondary - No

Correlative Factors - No

Other

Primary - No

Secondary - No

Correlative Factors - No

If other, please specify

Chronic conditions (CTCAE v3)

Primary - No

Secondary - No

Correlative Factors - No

Health status

Primary - No

Secondary - No

Correlative Factors - No

Demographic

Age

Primary - No

Secondary - No

Correlative Factors - Yes

Race

Primary - No

Secondary - No

Correlative Factors - Yes

Sex

Primary - No

Secondary - No

Correlative Factors - Yes

Others

Primary - No

Secondary - No

Correlative Factors - No

If others, please specify

Cancer treatment

Chemotherapy

Correlative Factors - No

Radiation therapy

Correlative Factors - Yes

Surgery

Correlative Factors - No

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.** DeoKumar Sriastava, Ph.D. Department of Biostatistics St. Jude Children's Research Hospital 262 Danny Thomas Place Mail Stop 768 Memphis, Tennessee 38105**Will this project utilize CCSS biologic samples?** Yes

If yes, which of the following?

Buccal cell DNA Yes
Peripheral blood
Lymphoblastoid cell lines
Second malignancy pathology samples
Other requiring collection of samples
If other, please explain

Other general comments