

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 : **Analytic Solutions to Data Problems Due to Recall Nature and Missing Age at Late Effects of CCSS.**

Planned research population (eligibility criteria) :

All CCSS participants.

Proposed specific aims :

The idea of this proposed study is to develop a novel analysis approach by utilizing a recently-proposed cutting-edge statistical method for the analysis of time to the first occurrence of a specific event based on recall information, a common analysis setting of CCSS and specifically will address the problem of failure in recalling the true onset age at any Chronic Health Condition (CHC). Also, this recall-based statistical analysis method allows to consider the effect of treatment and other exposures in estimating age at the onset of a CHC based on recall information. Along with solving the first problem, this analytic approach will improve the CCSS' handling of its special missing data problem (i.e., onset age is missing when the onset is known) by developing a distribution-based multiple imputation (MI) method to impute missing age at the occurrence of CHC with possible informative censoring. The specific aims of this study are:

Aim 1: To estimate the distribution of age at the onset of a specific CHC (e.g., congestive heart failure) based on recall information considering the error/missingness/possible informative censoring and the risk factors of each survivor in the CCSS data.

Aim 2: Develop a more accurate method for imputing the missing age at the onset of a specific CHC based on the estimated distribution.

Aim3: To evaluate the cumulative incidence of a specific CHC among survivors using the estimated distribution of age at the onset of CHC.

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 : **Secondary**

Psychology / Neuropsychology :

Genetics :

Cancer Control :

Epidemiology / Biostatistics : **Primary**

Section: Outcomes or Correlative Factors

Late mortality :

Second Malignancy :

Group: Health Behaviors

Tobacco : **Correlative Factors**

Alcohol :

Physical activity :

Medical screening :

Other :

If other, please specify :

Group: Psychosocial

Insurance :

Marriage :

Education :

Employment :

Other :

If other, please specify :

Group: Medical Conditions

Hearing/Vision/Speech : **Primary**

Hormonal systems : **Primary**

Heart and vascular : **Primary**

Respiratory : **Primary**

Digestive : **Primary**

Surgical procedures : **Primary**

Brain and nervous system : **Primary**

Other :

If other, please specify : **Note that we will select some of the Chronic Health Conditions for method developments, not all.**

Group: Medications

Describe medications :

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 :

Chronic conditions (CTCAE v3) :

Health status :

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 :

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**