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Project Title Solid Organ Transplantation in 5-year survivors of childhood cancer.
Planned research population (eligibility criteria) Subjects within the CCSS cohort who underwent liver, heart, lung, or kidney transplantation.
Proposed specific aims The primary objective is to establish the frequency and type of solid organ transplantation (SOT) in the CCSS cohort at baseline and 10 year follow-up (FU 2007). Secondary objectives will be: to identify disease related, treatment related, and demographic characteristics of those subjects undergoing SOT and to determine the cause specific mortality of those subjects undergoing SOT.
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 No
Biological Samples No
Medical record data No
If yes to any of the above, please briefly describe.

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

Second Malignancy
Primary - No Secondary - No

Chronic Disease
Primary - Yes Secondary - No

Reproductive
Primary - No Secondary - No

Neurologic
Primary - No Secondary - No

Psychology / Neuropsychology
Primary - No Secondary - No

Genetics
Primary - No 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 - Yes Correlative Factors - No

Second Malignancy
Primary - No Secondary - No Correlative Factors - No

Health Behaviors

Tobacco
Primary - No Secondary - No Correlative Factors - No

Alcohol
Primary - No Secondary - No Correlative Factors - No

Physical activity
Primary - No Secondary - No Correlative Factors - No

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 - Yes 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 - Yes

Radiation therapy
Correlative Factors - Yes

Surgery
Correlative Factors - No

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?

Buccal cell DNA
Peripheral blood
Lymphoblastoid cell lines
Second malignancy pathology samples

Other requiring collection of samples
If other, please explain

Other general comments This will be primarily a descriptive study due to low numbers of expected events. The outcomes will be of interest to transplant surgeons. Previous discussions with the Penn SOT registry indicate an interest in data supporting the hypothesis that cancer survivors undergoing SOT do not die of relapse, which would be part of this analysis. Utilizing the 2007 FU will lead to additional cases from the baseline, and hopefully, allow some long-term outcome on those who reported a SOT at baseline. Transplants would be validated by operative reports. Survivors who self-report for severe end organ damage ie dialysis would also have Operative records searched for evidence of transplantation. Thank you!