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Project Title Long-term outcomes in adult survivors of childhood cancer: a comparison of conventional therapy and hematopoietic cell transplantation (HCT)
Planned research population (eligibility criteria) Bone Marrow Transplant Survivors Study (BMTSS): •Primary diagnoses: Leukemia (Acute Lymphoblastic, Acute Myelogenous), or Lymphoma (Hodgkin, non-Hodgkin) •Underwent HCT ≤ 23 years of age Childhood Cancer Survivors Study (CCSS): •Cancer Survivors o Primary diagnoses: Leukemia (Acute Lymphoblastic, Acute Myelogenous), or Lymphoma (Hodgkin, non-Hodgkin) o Did not undergo HCT as part of treatment of primary disease •CCSS Siblings o Selected from CCSS enrolled cohort
Proposed specific aims Specific Aims: 1) Compare long-term outcomes in adult survivors of childhood cancer who underwent HCT versus healthy controls (CCSS siblings) matched on age, gender, and race. 1.1 Compare the burden of morbidity in the two cohorts with respects to: i. Secondary malignancies ii. Endocrinopathy and reproductive health iii. Cardiovascular complications iv. Psychosocial outcomes 1.2 Identify differences in treatment, disease characteristics, and demographics that may have contributed to a differential morbidity in the two cohorts. 1.3 Describe differences in overall reported health status and screening behavior in the areas of: i. Health care utilization ii. Physical activity iii. Quality of Life (SF-36) iv. Health insurance v. Cancer screening practices vi. Health risk behaviors vii. Impact of HCT on quality of life 2) Evaluate the additional role, if any, conditioning exposures play in the development of long-term complications following HCT using two representative cohorts from BMTSS and CCSS (cancer survivors), matched on age, gender, race, treatment exposures (anthracyclines, alkylating agents, and ionizing radiation). 2.1 Compare the burden of morbidity in the two cohorts with respects to: i. Secondary malignancies ii. Endocrinopathy and reproductive health iii. Cardiovascular complications iv. Psychosocial outcomes 2.2 Identify treatment exposures [HCT conditioning, total body irradiation (TBI), and graft versus host disease (GvHD) treatment or prophylaxis] that may have contributed to a differential morbidity in the two cohorts. 2.3 Describe differences in overall reported health status and screening behavior in the areas of: i. Health care utilization ii. Physical activity iii. Quality of Life (SF-36) iv. Health insurance v. Cancer screening practices vi. Health risk behaviors vii. Impact of HCT on quality of life
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 - Yes

Chronic Disease
Primary - Yes Secondary - No

Reproductive
Primary - No Secondary - Yes

Neurologic
Primary - No Secondary - Yes

Psychology / Neuropsychology
Primary - No Secondary - Yes

Genetics
Primary - No Secondary - No

Cancer Control
Primary - No Secondary - Yes

Epidemiology / Biostatistics
Primary - No Secondary - Yes

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 - Yes Secondary - No Correlative Factors - No

Health Behaviors

Tobacco
Primary - Yes Secondary - No Correlative Factors - No

Alcohol
Primary - Yes Secondary - No Correlative Factors - No

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

Medical screening
Primary - Yes Secondary - No Correlative Factors - No

Other
Primary - No Secondary - No Correlative Factors - No

If other, please specify

Psychosocial

Insurance

Primary - Yes	Secondary - No	Correlative Factors - No

Marriage

Primary - Yes	Secondary - No	Correlative Factors - No

Education

Primary - No	Secondary - No	Correlative Factors - Yes

Employment

Primary - Yes	Secondary - No	Correlative Factors - No

Other

Primary - No	Secondary - No	Correlative Factors - No

If other, please specify

Medical conditions

Hearing/Vision/Speech

Primary - Yes	Secondary - No	Correlative Factors - No

Hormonal systems

Primary - Yes	Secondary - No	Correlative Factors - No

Heart and vascular

Primary - Yes	Secondary - No	Correlative Factors - No

Respiratory

Primary - No	Secondary - No	Correlative Factors - No

Digestive

Primary - Yes	Secondary - No	Correlative Factors - No

Surgical procedures

Primary - Yes	Secondary - No	Correlative Factors - No

Brain and nervous system

Primary - Yes	Secondary - No	Correlative Factors - No

Other

Primary - No	Secondary - No	Correlative Factors - No

If other, please specify

Medications

Describe medications To be used as supporting evidence for certain reported comorbidities

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Pregnancy and offspring

Primary - Yes	Secondary - No	Correlative Factors - No

Family History

Primary - No	Secondary - No	Correlative Factors - No

Psychologic/Quality of Life

BSI-18
Primary - Yes | Secondary - No | Correlative Factors - No

SF-36
Primary - Yes | 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 - Yes | Secondary - No | Correlative Factors - No

Health status
Primary - Yes | 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 - Yes

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. F. Lennie Wong, PhD City of Hope National Medical Center Department of Population Sciences Division of Outcomes Research 1500 East Duarte Road Duarte, CA 91010 (626) 256-8631 lwong@coh.org
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