



Childhood Cancer Survivor Study (U24 CA55727)

Report of the
Epidemiology and Biostatistics Working Group
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Williamsburg, VA
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Publications in past two years

- **Dinu et al. Prediction of Second Malignant Neoplasm Incidence in A Large Cohort of Long-Term Survivors of Childhood Cancers. *Pediatr Blood Cancer*, 2008**
- **Pang et al. Employment Status Among Adult Survivors in the Childhood Cancer Survivor Study. *Pediatr Blood Cancer*, 2008**
- **Mertens et al. Cause-Specific Late Mortality Among Five-Year Survivors of Childhood Cancer. *J Natl Cancer Inst*, 2008**

Publications in past two years

- **Wasilewski et al. Late recurrence in survivors of childhood and adolescent cancer. J Natl Cancer Inst, 2009**
- **Buchanan et al. Behaviors Associated with Ultraviolet Radiation Exposure in a Cohort of Adult Survivors of Childhood and Adolescent Cancer. Cancer, 2009**
- **Ness et al. Assessment of selection bias in clinic-based populations of childhood cancer survivors. Pediatr Blood Cancer, 2009.**

Publications in past two years

- **Yeh et al. A Model-Based Estimate of Cumulative Excess Mortality in Survivors of Childhood Cancer. Ann Intern Med, 2010**
- **Ness et al. Characteristics of responders to a request for a buccal cell specimen among survivors of childhood cancer and their siblings. Accepted in Pediatr Blood Cancer.**

Recent Progress on other analyses

- **Sun exposure/skin cancer (Mertens/Leisenring) – Final Analysis**
- **Missing data imputation (Adewale/Yasui) – Draft manuscript, Wilms’ and HL examples.**
- **Relative Survival “Cure Analysis” (Yasui) – Analyses**
- **NMSC validation study (Mertens/ Leisenring) – Dosimetry complete, Analyses**
- **Methods related to longitudinal analysis of CCSS data (Leisenring) – Analyses**
- **Methods paper on fitting cumulative incidence curves as a function of age (Leisenring) – Analyses**

Current approved analysis concept proposals

- **Evaluation of cancer treatment data quality (Whitton) – waiting for Expansion data**
- **Determining the best comparison group for a cancer survivor study (Mertens (was Jurek))**
- **Linear Mixed Effects Quantile Regression (LMQR) Model (Kim) – data sent**
- **Cardiac mortality (Armstrong) – waiting for FU2007**
- **Cost Effectiveness of Cardiac Guideline for Survivors of Pediatric Cancers (Wong) – data sent**

Current approved AOI

- **Conditional Survival in CCSS (Wasilewski)**
- **Assessing bias associated with missing data from CCSS (Huang)**
- **Congenital heart disease (Gruber)**
- **Impact of health behaviors and health perceptions on subsequent mortality (Cox)**

Review of Ancillary studies

- **Feasibility of recruiting CCSS participants to a nearby cancer center to participate in clinical evaluation: a needs assessment survey (Mertens/Green)**
- **Predicting late effects of individual cancer survivors (Yasui)**

Future Research Projects

- **Differences in participant characteristics between the original and expanded studies**
- **Changes in treatment characteristics from the original to the expanded studies**
- **Patterns of participation – who responds by mail, telephone, internet?**
 - **Are there differences between groups?**
 - **Can we predict who prefers what method?**

Future Research Priorities

Task force: Strategy for the 2013 questionnaire

Issue - how to harmonize the two CCSS cohorts through the 2013 questionnaire

- **Which questions should be asked**
- **Which questions can be deleted**
- **Which questions should be updated regularly**
- **Which questions are no longer relevant**

Volunteers?