

Statistical Center Update

Wendy Leisenring

CCSS Investigator Meeting

June 12-13, 2012

Memphis, TN

FRED HUTCHINSON
CANCER RESEARCH CENTER

A LIFE OF SCIENCE

Statistical Center sites

Primary:

- 
A LIFE OF SCIENCE

Wendy Leisenring
Seattle ~4 FTE



Satellites:

- 
EDMONTON · ALBERTA · CANADA

Yutaka Yasui
Edmonton ~1.5 FTE



- 
ALSAC · Danny Thomas, Founder
Finding cures. Saving children.

Kumar Srivastava
Memphis ~3 FTE



Work hard to ensure uniformity of analyses via communication between sites.

Key Activities

- Database Management
- Statistical Analyses
- Proposal Development
- Weekly Conference Call between all Statisticians, Coordinating Center and Radiation Dosimetry Center

- Data Cleaning
 - Expansion Baseline Questionnaire
 - Expansion Medical Record Abstraction Forms (MRAF)
- SMN Data Audit
 - Original cohort SMN data audited and updated
- UNOS Linkage
 - Ascertain all solid organ transplants in cohort

Expansion vs. Original Cohort

- Expansion Cohort to finish accruing Dec 2013.
- Freezing data for initial ~8000 subjects first
- Working Group chairs are developing high priority concepts for first analyses

- **Previous Grant period (2006-2011):**
 - Published manuscripts: **117**
- **Current Grant period (2012+):**
 - Published Manuscripts: **32**
 - Submitted Manuscripts: **10**
 - Manuscripts in Preparation: **21**
 - Analyses Ongoing/Data sent: **33**
 - Approved Projects in Queue: **5**
 - Proposals under Development: **10+**

Selected Recent Key Projects

Topic	Journal Accepted/Published
Stroke Incidence and Risk factors	Inter J of Radiat Oncol Biol Phys
Cardiac Risk Factor and Clusters	JCO
Female Infertility and Fertility Treatments	Lancet Oncology
Cyclophosphamide Equivalent Dose Evaluation	Pediatric Blood and Cancer
Employer-Sponsored Health Insurance Coverage Limitations	Support Care Cancer
Leukemia growth and endocrine Multiple SMNs	Pediatric Blood and Cancer JCO

Longitudinal Assessment of:

Status

Psychological Distress

Brinkman, Submitted

Chronic Health Conditions

Armstrong, Submitted

Health Care Use

Casillas, Draft Manuscript

Physical Activity

Wilson, Draft Manuscript

Health Conditions and Employment
Transitions

Kirchhoff, Analyses
Underway

Longitudinal Assessment of Health Status among:

Status

Sarcoma Survivors

Marina, Arch Phys Med Rehab,
2013

Hodgkin Lymphoma Survivors

Effinger, Draft Manuscript

Full cohort

Hudson, Analyses in Progress

Proposals, Ancillary studies

- Assist with development of all analysis proposals
- Collaborate on ancillary study grant proposals
 - To date have been involved in 15+
- Please include us early in process

Priorities emphasized in grant include:

- Aging among survivors
 - Utilizes longitudinal data

- Comparisons between Expansion and Original Cohort
 - Focus now on planning ahead for these projects

- Genetic Studies
 - GWAS data

Priorities and Challenges

- **Analyses:** Maintain productivity on analytic projects underway
- **Expansion Cohort data cleaning:** Programming and iteration on corrections.
- **Documentation:** Produce a full set of summary documentation for data from key questionnaires.
- **SMN Data:** Carrying out a conversion of ICD0-2 to ICD0-3 for SMN data