

# CCSS Statistical Center Update

Investigators' Meeting

June 4-5, 2008

Niagara-On-the-Lake, ON

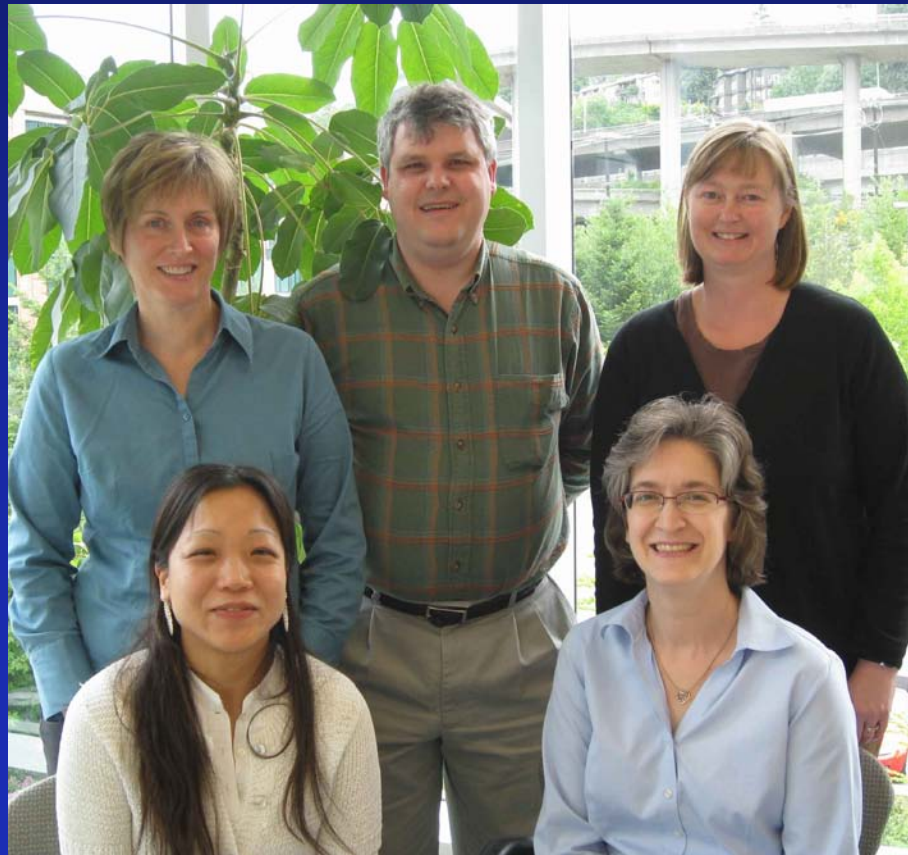
# Who We Are in Seattle



**Pam  
Goodman**

**John  
Whitton**

**Wendy  
Leisenring**



**Toana  
Kawashima**

**Kayla  
Stratton**



# Northern Satellite: Edmonton



Qi Liu



Yan Chen



Yutaka  
Yasui



Adeniyi  
Adewale



Anmmd  
Kamruzzaman

# Statistical Center Overview

## Key Activities

- Database Management
- Proposal Development
- Statistical Analyses
- Weekly Conf Call w/ Coordinating Ctr and Radiation Dosimetry Ctr

# Data Freezing

- Error checks on new data elements
  - Internal checks (outliers, impossible values)
  - External comparisons to existing data
- February 2006 “frozen” data:
  - Includes Survivor and Sibling FU2 data
- Currently freezing FU3 data (a small amount of new info)

# Expanded Cohort

- Sample selection process for 20,729 Survivors
- Extensive review of web-based Baseline Q
  - Internal error checks instantaneous
  - Should result in higher quality data

# Public Use Data

- Jim Gurney task force
- First Phase
  - Developed tables with data from baseline and FU
  - Stratified by key variables
  - Will be on St Jude website soon
  - Opportunity for user feedback
- Future Phases could include:
  - Interactive tailored tables
  - Generation of analyzable data sets

# Missing Data Imputation

- Use Multiple Imputation (MI) for imputing missing treatment data
- Successful test version carried out on Wilms' patients with Drs. Dan Green and Joe Neglia
- Working with clinical investigators to develop models to implement for each diagnosis group



# Proposals, Ancillary studies

## Proposal Development Process

- New AOI
- Contact Statistical & Radiation Center early
- Obtain needed preliminary data
- Develop proposal
  - Statistical methods appropriately described
  - Explicitly list needed data elements
- Submit to publications committee for review
- Assigned to Statistician after approval

# Policy on outside individuals carrying out analyses

- Qualified statistician on site with investigator
- Statistical Center to review programs, results
- Implications for students/fellows needing to carry out own analysis

# Recent Activities

- Assist with development of all analysis proposals (~8 in past 9 months)
- Collaborate on ancillary study grant proposals (~5 in past 9 months)
- Please include us early in process

# Recent Progress on Key Projects

<b>Cardiac Polymorphism</b>	In Press, Cancer
<b>Obesity in ALL</b>	In Press, JCO
<b>Late Mortality</b>	Revisions resubmitted to JNCI
<b>Diabetes</b>	Resubmitted to JCEM
<b>Menarche in CNS</b>	Submitted to Pediatrics
<b>SMN 20+</b>	To be resubmitted.
<b>Dental Outcomes</b>	Final Draft
<b>Selection Bias</b>	Final Draft
<b>Cardiac Outcomes</b>	Final Manuscript in Preparation
<b>Disease Specific</b>	AML (Cancer), ALL (Blood), NB, Osteosarcoma, Ewings (manuscripts)
<b>22 Abstracts</b>	12 Stat Center as primary analyst, 10 additional with involvement

### 3. Statistical Analyses

## CCSS projects with Statistical Center Involvement

	N	Since Aug `07
Published (ever)	69	12
- 2005-2008	42	12
Submitted	9	
In final draft form	13	
Manuscript in preparation	10	
Abstracts submitted (for 2008)	22	22
Analyses Ongoing	27	
In Queue waiting for Statistician	0	-10

See the detailed listing in Meeting Notebook

# Staff

- **Current Personnel:**
  - ~4 funded FTE in Seattle
  - ~1.25 funded FTE in Edmonton
- **Hope to add 0.6 FTE in Seattle**
  - 0.6 Staff Scientist or Faculty (PhD)

# Future Plans

- Continue high productivity of analyses (no wait list)
- Work more on methodology papers/projects:
  - Missing data imputation
  - CCSS participation / selection bias
  - ...
- Public Use Tables go live on web
  - Update in response to user input
- Freeze FU3/FU2007 data with St Jude
  - Increased data documentation
- Expanded Cohort
  - Questionnaire and MRAF Data checking

