

## **Division of Biostatistics and Data Coordination**

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New York State Psychiatric Institute  
Annual Report for July 1, 2007 – June 30, 2008

### **Overview**

The Division of Biostatistics and Data Coordination serves both as a research unit, and as a support unit, in the New York State Psychiatric Institute (PI). As a research unit, the Division conducts primary research in biostatistical and data management methodologies of relevance to psychiatric research, and disseminates the findings to PI investigators and the psychiatric research community at large. As a support unit, the Division provides biostatistical and data management support to PI investigators on a wide range of empirical research tasks, including study design, development of research questions and hypotheses, power and sample size analyses, data analysis plan, data monitoring, reliabilities of measures and quality assessment, interim analysis, statistical modeling, data analyses, interpretation of findings, manuscript preparation and revision. The Division encourages investigators to engage biostatisticians and data managers from the Division as early as possible in their research production process, to maximize the potential contributions from the Division to their grant applications in terms of the conceptualization, design, and implementation of the study. The Division also provides training and education in biostatistical and data management methodologies to PI investigators, fellows, residents, and students. In addition, the Division provides training and education to junior members in the Division, to advance their career development and long term contributions to the New York State Psychiatric Institute and its overall mission.

### **Staff**

Howard Andrews, PhD, Research Scientist V  
Henian Chen, MD, PhD, Research Scientist III  
Naihua Duan, PhD, Research Scientist VII  
Steve Ellis, PhD, Research Scientist V  
Hanga Galfalvy, PhD, Assistant Professor of Clinical Neurobiology (in Psychiatry)  
Robin Garfinkel, PhD, Associate Research Scientist (in Psychiatry)  
Lori Hoepner, MPH, Senior Staff Associate  
Huiping Jiang, PhD, Technical Specialist Level III  
R. Todd Ogden, PhD, Research Scientist IV  
Martina Pavlicova, PhD, Assistant Professor of Biostatistics (in Psychiatry)  
Kelly Roska, MA, Division Administrator  
Yuanjia Wang, PhD, Assistant Professor of Biostatistics (in Psychiatry)

## Current Research

During FY 2007/2008, the Biostatistics Research Center (BRC) collaborated on funded grants with the following investigators: Carlos Blanco, Alan Brown, Patricia Cohen, Brian Fallon, Kimberly Hoagwood, Huber Kleber, Roberto Lewis-Fernandez, Jeffrey Lieberman, John Markowitz, Ned Nunes, Harold Sackheim, Kathy Shear, Blair Simpson, and Joanna Steinglass.

The BRC supported grant submission for the following investigators: Deidre Anglin, Evelyn Attia, Beatrice Beebe, Adam Bisaga, Carlos Blanco (4 grants), Hyumni Choi, Nancy Covell, Davangere Devanand, Susan Essock, Brian Fallon, Prudence Fisher, James Gangwisch, Madelyn Gould, Kimberly Hoagwood, Christina Hoven, Carlos Jackson, Denise Kandel, Stephanie Kasen, Diane Klein, Jeffrey Lieberman, John Mariani, John Markowitz, Laurel Mayer, Ned Nunes, Maria Oquendo, Sapana Patel, Brad Peterson, Bret Rutherford, Frank Schneier, Kathy Shear, Ariel Stanford, Robyn Sysko, Robert Vorel, and Tim Walsh.

In addition, the BRC provided consultations to the following investigators: Efrat Aharonovich, Arman Altincatal, Paul Appelbaum, Neeraj Badjatia, Beatrice Beebe, Carlos Blanco, Aimee Campbell, Kenneth Carpenter, Carol Caton, Ivy Chen, Ying Chen, Hyumni Choi, Lisa Cohen, Nancy Covell, Lirio Covey, Yael Cycowicz, Anke Ehrhardt, Katherine Elkington, Susan Essock, Brian Fallon, Andres Fernandez, Prudence Fisher, Abby Fyer, Ragy Girgis, Joshua Gordon, Madelyn Gould, Maureen Haney, Katy Harper, Deborah Hasin, Kimberly Hoagwood, Mei-Chen Hu, Carlos Jackson, Michal Kiml, Suresh Krishna, Richard Krueger, Louise Kuhn, Elizabeth LeQuesne, Frances Levin, Roberto Lewis-Fernandez, Jeffrey Lieberman, Samantha Luk, Michael Maher, Matthew Malter-Cohen, John Mann, Mark Manseau, John Mariani, John Markowitz, Laurel Mayer, Laura Mufson, Danila Musante, Ned Nunes, Mauro Oddo, Maria Oquendo, Sapana Patel, Melanie Perez, Brad Peterson, Robert Remien, Harold Pincus, Jim Rodriguez, Moira Rynn, Harold Sackheim, Michael Schmidt, Kathy Shear, Tom Smith, Joel Sneed, Alexandra Sporn, Ariel Stanford, Tasha Stehling-Ariza, Jonathan Stewart, Robyn Sysko, Susan Tross, Blake Turner, Nehal Vadham, Robert Vorel, Suzanne Vosburg, Katjia Wartenberg, Tim Walsh, Jennifer Wisdom, and Paul Zarkowski.

The Data Coordinating Center (DCC) provides comprehensive data management and project management services for the following funded projects and research centers:

- Behavioral Cardiology
- Child Psychiatry
- Division of Translational Imaging
- Fragile X Case Registry Project (with Institute for Basic Research)
- HIV Center for Clinical and Behavior Research
- Implementing Evidence Based Practice for Children Center
- Memory Disorders Clinic/Alzheimer's Disease Research Center

- Multicenter Vitamin E Trial in Persons with Down Syndrome (with Institute for Basic Research)
- Neuroscience Clinic for Mood and Personality Disorders
- Prevention of Alzheimer's Disease with Estrogens (with Mount Sinai School of Medicine)
- Substance Treatment and Research Services
- Traumatic Brain Injury Data Coordinating Center
- Washington Heights-Inwood Columbia Aging Project

## **Education and Training**

The Division hosted a weekly biostatistics seminar series to serve as a forum of shared learning experience for biostatisticians and PI investigators and research staff who are not biostatisticians but are interested in biostatistics. The seminar series is attended regularly by an audience of twenty to thirty, sometimes more, including a group of analysts from the New York State Office of Mental Health in Albany attending via remote access webcasting plus teleconferencing provided by PI's Technology Information Systems.

The Division provided mentoring to the following fellows/students: Wendy Chen, Katherine Elkington, Bingqing Guan, Chia-Hui Huang, Mei-Chen Hu, Devid Kern, Elizabeth LeQuesne, Louise Kuhn, Sapana Patel, Prudence Fisher, Xiaodong Li, Armine Lulejian, Theresa Schwartz, Nanshi Sha, Robert Vorel, Aolin Xie, and Yulei Zhang.

## **Grant Awards**

Dr. Galfalvy is continuing with her work on a five-year career development award, "Statistical Methods for Predicting Suicide Attempt," from NIMH (K25-MH074068) starting July 1, 2006.

## **Awards and Honors**

Dr. Ogden received the HO Hartley Award for distinguished service to the discipline of statistics. He was also appointed as a fellow of the Glenda Garvey Teaching Academy at Columbia University Medical Center.

## **Highlights**

The Division is in the process of recruiting several new biostatistics faculty members, including a Deputy Division Director, to enhance the Division's capacity to provide comprehensive biostatistics support to PI investigators, and to conduct high quality

methodological research in biostatistics. The search has been announced in Amstat News, the newsletter for the American Statistical Association. We plan to invite leading candidates from this search for interviews during Winter/Spring 2009.

## Publications

Alegría M, Canino G, Shrout PE, Woo M, Duan N, Vila D, Torres M, Chen CN, Meng XL. (2008). Prevalence of mental illness in immigrant and non-immigrant U.S. Latino groups. *American Journal of Psychiatry* 165(3), 359-69. Epub 2008 Feb 1.

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