

DONNA J. BROGAN LECTURE IN BIOSTATISTICS

"The Prevention and Treatment of Missing Data in Clinical Trials"

Presented by:



Roderick J. Little, Ph.D.
Richard D. Remington Collegiate Professor of Biostatistics
Department of Biostatistics
University of Michigan



Donna J. Brogan, Ph.D.
Emerita Professor
Department of Biostatistics and Bioinformatics
Rollins School of Public Health

Donna J. Brogan received her Ph.D. in statistics from Iowa State University and was Assistant Professor of Biostatistics at UNC School of Public Health before joining Emory in 1971 as the first female faculty member in its Statistics/Biometry Department, later becoming only the fourth female full professor in its School of Medicine. In the Rollins School of Public Health, she was its first female full professor and its first female chair of the Department of Biostatistics. Dr. Brogan's research interests, reflected in her 150 publications, include design and analysis of complex sample surveys and collaboration with health scientists.

Dr. Brogan's honors include fellow of the American Statistical Association (ASA), Emory University's Thomas Jefferson Award, three distinguished alumni awards [Gettysburg College (BA), Purdue (MS), Iowa State (Ph.D.)], and the ASA's Elizabeth Scott Award for significant contributions to the advancement of women within the statistics discipline. Dr. Brogan's leadership talent in academic and government realms was applied to selected activism. Based on her experience in a male dominated discipline, she founded the Caucus for Women in Statistics in 1971. Dr. Brogan's experience as a breast cancer researcher and patient motivated her to help found the U.S. breast cancer advocacy movement in the 1990's.

Since her retirement in 2004, Professor Emerita Brogan continues to advise government agencies on design and analysis of complex sample surveys and teach continuing education courses on this topic. She is an avid participant in challenge level square dancing, a complicated activity that uses concepts from mathematics and geometry.

Missing data have seriously compromised inferences from clinical trials, yet the topic has received little attention in the clinical trial community. Regulatory guidances on the design, conduct and analysis of clinical trials have little specific advice on how to address it. In 2010 I chaired a National Research Council panel on this topic, which prepared a report that is commanding considerable attention. I'll review the main findings of that report and provide my own perspective on some analysis issues.

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“The Prevention and Treatment of Missing Data in Clinical Trials”

**April 15, 2013
4:00 PM**

**Lawrence P. & Ann Estes Klamon Room
Rollins School of Public Health
Claudia Nance Rollins Building, Rm. 8030
1518 Clifton Road, N.E.**

Welcome: Amita Manatunga, Ph.D.
Chair, Brogan Lecture Committee
Department of Biostatistics and Bioinformatics

Introduction: Lance A. Waller, Ph.D.
Rollins Professor and Chair
Department of Biostatistics and Bioinformatics

Donna J. Brogan Lecturer:
Roderick J. Little, Ph.D.
Department of Biostatistics
University of Michigan

Reception immediately following the lecture

This lecture honors Donna J. Brogan, an outstanding former faculty member and chair in the Department of Biostatistics of the Rollins School of Public Health (RSPH), and is made possible in large part by the generous support of Donna, her colleagues and friends.

Roderick J. Little, Ph.D.

Roderick J. Little is Richard D. Remington Collegiate Professor in the Department of Biostatistics at the University of Michigan; he previously served as department chair for eleven years. He also holds appointments in the Department of Statistics and the Institute for Social Research. From September 2010 to January 2013 he served as the inaugural Associate Director for Research and Methodology and Chief Scientist at the U.S. Census Bureau.

An ISI Web of Science highly cited researcher, Dr. Little has over 280 publications, mainly on methods for the analysis of data with missing values and model-based survey inference, and the application of statistics to diverse scientific areas, including medicine, demography, economics, psychiatry, aging and the environment.

Dr. Little is an elected member of the International Statistical Institute, a Fellow of the American Statistical Association and the American Academy of Arts and Sciences, and a member of the Institute of Medicine of the U.S. National Academies. He was Vice President of the American Statistical Association from 2010-2012. In 2005, Dr. Little was awarded the American Statistical Association's prestigious Wilks Medal for research contributions, and he gave the President's Invited Address at the Joint Statistical Meetings. He was the COPSS Fisher Lecturer at the 2012 Joint Statistics Meetings.

Dr. Little has a bachelor's degree in mathematics from Cambridge University and masters and doctoral degrees in statistics from London University, England.