Complex Survey Data Analysis with SUDAAN and the SAS Survey Procedures

Two Day Workshop

Instructor: Donna Brogan, PhD
Emerita Professor in Biostatistics
Rollins School of Public Health
Emory University

Dates: Monday, October 15, 2012 - Tuesday, October 16, 2012
9:00am-4:00pm

Location: Rollins School of Public Health
Emory University
1518 Clifton Road
Grace Crum Rollins Building, Room 105
Atlanta, GA 30322

Cost: $700

Course Description:
This workshop is for health scientists and researchers who need to analyze data from national or statewide health surveys but have no or limited knowledge of the specialized statistical techniques and software that are required for complex survey data. Participants will learn to use SUDAAN, a survey software package, and the SAS survey procedures for descriptive analyses of survey data. The course first reviews the theoretical and practical context within which secondary data analysts work, including a summary of prototype sampling plans and their corresponding SUDAAN and SAS syntax, definition of population parameters and their estimators, and approximate methods for variance estimation (Taylor Series Linearization and replication methods). Descriptive procedures in SUDAAN (CrossTab and Descript) and in SAS (SurveyFreq and SurveyMeans) are explained and illustrated with several examples. Included also is estimated age-standardized prevalence or mean and comparison of domains on prevalence or mean. An overview is given of modeling procedures available in SUDAAN and in the SAS survey procedures, but no modeling examples are included in this workshop. BRFSS and NHANES surveys are used as examples. Participants and the instructor analyze data together, and participants work on assigned lab exercises.

Course Prerequisites:
Participants should have an intermediate background in statistical and epidemiological methods and be familiar with descriptive statistics, inferential statistics (estimation and testing hypotheses), z and Student t-tests, chi-square tests, odds ratio, prevalence ratio, relative risk, and standardized rates or means (direct method). Participants should have experience using SAS for data management and SAS STAT for analysis of data from a simple random sample. Experience with linear contrasts and simple linear (matrix) algebra is recommended.

Register at:

https://www.alumniconnections.com/olc/pub/EMR/event/showEventForm.jsp?form_id=127320