Weekly Seminar Series on Applied Biostatistics in Clinical Research

Instructor: Mark Schluchter, Ph.D.

Sponsored by W.T. Dahms Clinical Research Unit and Cleveland Clinical and Translational Sciences Collaborative

Wednesdays, 4:00 – 5:30
January 11– March 7, 2012

School of Medicine, Room E301

A list of lectures is as follows:

1. Introduction to biostatistics / Data Summarization
2. Comparing means of two or more groups – t-test, ANOVA
3. Analysis of frequency data – chi-square, Fisher’s exact test
4. Nonparametric methods
5. Sample size and power
6. Linear regression and correlation
7. Multiple linear and logistic regression
8. Survival analysis
9. Diagnostic tests and Receiver Operating Characteristic Curves

The course is targeted to faculty, fellows, and others involved in clinical research at Case Western Reserve University and its affiliated hospitals, and is meant to provide an introductory overview. Emphasis is non-mathematical, focusing on understanding what methods to use in what situations, and on how to interpret the results. It is not a credited course, and there will not be a formal examination. Individuals are welcome to attend some or all lectures, depending on their particular interest. There is no registration fee, and handouts of slides will be provided.

Note: Parking is not reimbursed or validated for those coming from off-campus.

Online registration is open at:

http://cru.case.edu/seminar.html

For questions about the course, please contact Dr. Schluchter at mds11@case.edu.