

SESSION TITLE:

Econometrics of Health Care Cost, Expenditure, and Utilization Data

SESSION TOPICS:

1. Skewed outcomes in the absence of censoring at zero:
 - Box-Cox approaches
 - The retransformation problem.
 - Generalized Linear Models (GLM)
 - Extensions that allow selection of both the link and the distribution function for GLM

2. The zeroes issue and skewed outcomes common to many cost and expenditure analyses:
 - Two part and related models
 - Robustness of untransformed least squares
 - Less parametric approaches
 - Computation of marginal and incremental effects

3. Counts of health care utilization:
 - Poisson and negative binomial models
 - Zero inflated Poisson and Negative Binomial models
 - Hurdle models
 - Finite mixture models

We will provide a tool kit of methods for checking the quality of the fit of the estimated model to the data. The kit will include a range of specification tests and sample statistical software.

We will provide sample statistical programs written for Stata.

Illustrations from real world data will be included. We will comment on the robustness of various methods.

This course is targeted toward anyone using cost, expenditure, or count micro data with a basic PhD level of econometrics.

SESSION FACULTY:

Partha Deb, Hunter College

Willard Manning, University of Chicago

Edward Norton, University of North Carolina at Chapel Hill