JOHNS HOPKINS BLOOMBERG SCHOOL of PUBLIC HEALTH

Department of Biostatistics

BIOSTATISTICS SEMINAR

Cross-sectional Observations of Simple Counting Processes

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Abstract

Cross-sectional observations on counting processes stimulates a number of tantalizing questions. I will focus on the general idea concerning whether screening data information on intermediate stages can improve estimation--and by how much--on time-to-event questions regarding later or final stages, and vice-versa. A motivating example concerns estimation of HIV incidence based on concurrent test results from a standard ELISA and a negative detuned version of the same test. Here, interest focuses on the time until the first event when there is information on the second event at the time of testing. Other questions in this context include determination of optimal waiting times between events if that is under the control of the investigator. I will survey some past approaches to these kind of questions, and discuss some current work in progress that is joint with Karen McKeown.

The Johns Hopkins Bloomberg School of Public Health
Department of Biostatistics, Wednesday, September 15, 2010
Room W2030 School of Public Health, 4:00-5:00pm (Refreshments: 3:30)