BIOSTATISTICS SEMINAR

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Title: Efficient doubly robust imputation for longitudinal dropout with an application to an Alzheimer's clinical trial.

Abstract: We develop an imputation approach to doubly-robust estimation in longitudinal studies with dropout, motivated by the informative dropout that is common in FDA-regulated trials for Alzheimer's disease. In this approach, the missing data are first imputed using a doubly robust algorithm, and then the completed data are substituted into a standard full-data estimating equations. An advantage of the approach is that, once the missing data are imputed, any estimated defined by a wide class of estimating equations will inherit the doubly robust properties of the imputation method. We illustrate the approach using data from a large randomized trial investigating the effect of Donepezil in Alzheimer's disease, from the Alzheimer's disease Cooperative Study (ADCS) group.

NOVEMBER 11, 2021   **133 ROSENAU HALL**   **3:30-4:30PM**

Zoom Link: https://unc.zoom.us/j/93545206596?
pwd=N1lKeVZjSFhuM2lhSDJCWjN3c21BUT09 Meeting ID: 935 4520 6596

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