Modeling Heterogeneity for Stratified Populations

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Abstract:

We frequently encounter stratified data. In precision medicine, patients are exposed to different treatment options. In health disparities research, race, gender, and rurality are key indicators for investigation. In health care management, health outcomes of elderly patients are greatly influenced by presence of their existing chronic conditions. In this talk, I present some strategies to model such stratified data to address interested research questions from my collaboration with medical investigators. The talk will focus on model building in the presence of many covariates rather than computational and theoretical results, which are available in published works. It will cover stratification by one indicator, by two indicators, by three indicators, and if time permits, by many more multilevel indicators.