

國立中山大學跨領域及數據科學研究中心

國立中山大學應用數學系

學術演講

- 講者：Professor Kerby Shedden
Department of Statistics, University of Michigan, Ann Arbor, USA
- 講題：Statistical and computational challenges in population-scale health services research
- 時間：2017/08/17（星期四）14:10 ~ 15:00
- 地點：理學院四樓理 SC 4009-1 室
- 茶會：15:00 於理 SC 4010 室（系辦公室）

摘要

I will discuss a large-scale health services research project from a statistics and data science perspective. Around 180 million people in the United States have private health insurance paid for by an employer. Several data providers integrate and sell detailed insurance claims data for this population to researchers. We recently conducted some analyses using such data, utilizing billions of records on around 100 million subjects. Our focus is on liver disease (cirrhosis), which is believed to impose a growing burden in America (and globally) in terms of prevalence, costs, hospitalizations, and symptom burden. The analysis presents many statistical challenges, including sampling and ascertainment biases, informative censoring, missing data, and high dimensional confounding. While these issues have been considered in prior work, unique challenges arise when attempting to address such issues in the setting of multi-terabyte datasets. I will discuss some of the computational and statistical approaches that we have used in this work.

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