

國立臺北大學統計學系

專題演講

講題：Some of my experiences in using data for research in health sciences

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時間：106 年 3 月 22 日 (星期三，13:00~15:00)

地點：三峽校區商學大樓商 **7F01** 教室

Abstract

Traditional biostatistics deals with health issues based on data collected from clinical trials, epidemiology studies, and administration of health services. Science and technology advances in the past 20 years increased tremendously the variables that can be included in health sciences studies. These include various genomic data and electronic medical record. These together with advances in statistics and computer science pave the way to the age of precision medicine (精準醫療). One important feature of the current health science studies is that collaboration among people from different expertise is common, including physician scientists, molecular biologists, statisticians, etc. Efficient communication is a necessary skill. In this talk, I will share with you some of my experiences in the collaborative research, with focus on my role as a statistician. In particular, I will introduce the data that are available in the public domain. The first part of the talk regards the Taiwan National Health Insurance Research Database (全民健康保險研究資料庫), the Taiwan Cancer Registry (癌症登記檔) and the Taiwan Cause of Death Database (死因統計檔). The second part of my talk regards various omics data, including genomic, transcriptomic, and epigenomic data. Some of the analyses involve straight-forward application of standard statistics methods, others require certain modifications of standard methods, still others prompt the development of new methods. Although our main role is a statistician, it is desirable if we can keep in mind that the information extracts from these data set can help us to better understand the pathogenesis of a disease, thereby improve diagnosis or treatment and move in the direction of precision medicine.

~歡迎參加~

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