

Introduction to Pharmacoepidemiology

藥物流行病學研究介紹

課程內容

- 介紹世代研究在藥物流行病學中之基本概念，包含研究設計、架構與統計分析，以及簡介時間相依變項與傾向分數之方法。
- 介紹病例對照研究在藥物流行病學中之基本概念，包含研究設計、架構與統計分析，並輔助實例說明。
- 簡介藥物流行病學之干擾因子與誤差，並介紹世代研究中可能出現的干擾因子與誤差，以及其校正方法
- 介紹病例對照研究常見的干擾因子與誤差，包含選樣誤差、資訊誤差及測量誤差。並且，藉由例子簡介如何解決病例對照研究中的干擾因子與誤差。

教育目的

- 讓藥物流行病學入門者可對世代追蹤與病例對照研究這兩種最常使用之研究方法之設計與觀念有所認識。
- 介紹干擾因子與誤差的定義，以及在世代研究中處理干擾因子與誤差的方法。
- 了解病例對照研究可能必須控制或校正的干擾因子與誤差。

教育對象

- 藥物流行病學入門者。
- 公共衛生、衛生行政、醫師、藥師及其他醫療相關人員等對藥物流行病學有興趣者。

課程師資、單位職稱、課程主題

■ 林子傑

國立成功大學臨床藥學與藥物科技研究所博士後研究員

世代追蹤

■ 蕭斐元

國立臺灣大學臨床藥學研究所助理教授

病例對照研究

■ 王繼娟

國立臺灣大學藥學系助理教授

世代研究之干擾因子與誤差

■ 鄭靜蘭

國立成功大學臨床藥學與藥物科技研究所助理教授

病例對照研究之干擾因子與誤差

Introduction to Pharmacoepidemiology

Content

- To introduce the basic concepts of cohort study in the field of pharmacoepidemiology, including study design, structure and statistical analysis. A brief introduction of time-dependent variables and propensity score is also included.
- To introduce the basic concepts of case-control studies in the field of pharmacoepidemiology, including study design, structure and statistical analysis. Some empirical studies will be included.
- Introduction of confounding and bias and how to address them in cohort studies.
- To introduce the type of confounding and bias in case-control studies such as selection bias, information bias and measurement bias. Additionally, give some examples to introduce how to deal with confounding and bias in case-control studies.

Educational Objectives

- To understand the concepts and design of most two frequently adopted study designs in the field of pharmacoepidemiology: cohort and case-control study.
- To know concept of confounding and bias and the methods to avoid confounding and bias in cohort studies.
- To understand what kind of confounding and bias need to be deal with in case-control studies.

Target Audience

- Individuals who are new to the Pharmacoepidemiology field.
- Public health, government, physicians, pharmacists or health care provider who have interesting on pharmacoepidemiological research.

Course Faculty, Affiliation and Presentation Topics

■ Tzu-Chieh (Jay) Lin

Institute of Pharmacy and Pharmaceutical Science, National Cheng Kung University,

Topic: Cohort studies

■ Fei-Yuan (Sharon) Hsiao,

Graduate Institute of Clinical Pharmacy, National Taiwan University,

Topic: Case-control studies

■ Chi-Chuan (Emma) Wang

School of Pharmacy, National Taiwan University,

Topic: Confounding and Bias in Cohort Studies

■ Ching-Lan (Rebecca) Cheng

Institute of Pharmacy and Pharmaceutical Science, National Cheng Kung University

Topic: Confounding and Bias in Case-control Studies