

陽明大學公共衛生研究所

課程名稱	流行病學方法		
負責老師	莊宜芳	授課教師	莊宜芳 陳信任
適合修讀程度	碩博班		
上課地點	教學 204	上課時間	每週四 15:30~18:10
課程說明	<p>Introduces students to the principles and concepts used in epidemiologic research. Presents material in the context of an epidemiological framework with three major areas: population and an introduction of study designs; measurement, including measures of accuracy, disease occurrence and associations; bias and confounding in epidemiologic studies. Laboratory exercises and assignments provide experience with applying concepts and calculations to problems drawn from real epidemiological data and published literature.</p>		
教學目標	<p>Upon successfully completing this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Describe basic epidemiologic methods 2. Identify and distinguish basic epidemiological study designs 3. Recognize important characteristics associated with measurement in epidemiologic studies 4. Recognize and analyze the most important threats to validity: confounding, information bias, and selection bias 5. Critically review published epidemiologic papers and assess the validity of their design and their inferences 		
考評方式	<p>Midterm exam: 30%</p> <p>Final exam: 30%</p> <p>Class participation: 40% (10% per lab session)</p>		

課程用書/ 參考資料	Gordis, L. (2014) Epidemiology, 5 th ed. Elsevier: Philadelphia, PA. ISBN: 978-1-4557-3733-8
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授課進度

	Topic	Hr	Instructor
Week1	Introduction	3	
Week2	Population and time / Causal inference	3	莊宜芳/陳信任
Week3	Measurement of occurrence	3	莊宜芳/陳信任
Week4	Lab discussion I	3	莊宜芳/陳信任
Week5	Cohort study	3	莊宜芳/陳信任
Week6	Measures of association	3	莊宜芳/陳信任
Week7	Lab discussion II	3	莊宜芳/陳信任
Week8	Midterm exam	3	莊宜芳/陳信任
Week9	Case-control study	3	莊宜芳/陳信任
Week10	Randomized controlled trial	3	莊宜芳/陳信任
Week11	Survey and surveillance	3	莊宜芳/陳信任
Week12	Lab discussion III	3	莊宜芳/陳信任
Week13	Confounding and Bias	3	莊宜芳/陳信任
Week14	Effect modification/Closing	3	莊宜芳/陳信任
Week15	Lab discussion IV	3	莊宜芳/陳信任
Week16	Final exam	3	莊宜芳/陳信任