

## EPID6004 Practice in Systematic Review and Meta-analysis

(1.5 credits)

Course Coordinator: Prof. Zuyao Yang

### Course Description

This course is an advanced module for students who are interested in conducting systematic review and meta-analysis. It emphasizes on practical knowledge and skills needed for doing this kind of research: performing exhaustive literature search to identify relevant studies, extracting data from eligible studies, assessing risk of bias, synthesizing data, including meta-analysis, presenting results graphically and tabularly, investigating heterogeneity and potential biases, and publishing manuscripts in peer-reviewed journals. Tutorial materials will be distributed to students for their in-class exercises. Students will be enabled to master the essential skills for doing systematic review and meta-analysis by the end of this module.

### Learning Outcomes/Objectives

By the end of this module, students are expected to be able to:

1. formulate a structured research question and develop search strategies according to the question
2. retrieve relevant studies by exhaustive literature search and select eligible studies from them
3. extract data from eligible studies
4. assess risk of bias for randomized controlled trials using appropriate tools
5. synthesize data from eligible studies, including narrative summary and meta-analysis
6. do other related analyses, such as the investigation of publication bias
7. prepare systematic review manuscripts for publication according to relevant guidelines

### Course Schedule

Session	Date	Time	Venue
1	Mar 10, 2017 (Fri)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Mar 24, 2017 (Fri)	6:30 – 9:30 pm	
3	Mar 31, 2017 (Fri)	6:30 – 9:30 pm	
4	Apr 7, 2017 (Fri)	6:30 – 9:30 pm	
5	Apr 21, 2017 (Fri)	6:30 – 9:30 pm	
6	Apr 28, 2017 (Fri)	6:30 – 9:30 pm	

### Fee

Application Fee: \$100

Course Fee: \$6,600