Critical Appraisal in Quantitative Health and Social Sciences Research

Subject Code (Course Number): 01EQ411

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General Objectives (GIO)
The course is designed for graduate students at either the Master program or PhD first grade who are interested in interpreting and conducting research studies involving quantitative methods.

Action Objectives (SBO)
The course will provide students with experience in critically appraising a range of research methods and familiarize them with a variety of biostatistical approaches. Students will use a variety of frameworks to critically appraise literature from their chosen field of study and examine and discuss the implications for evidence-based practice.

Lecture Schedule/Main Topics
1. (5, July) Introduction to levels of evidence and quantitative research
2. (5, July) Frameworks for critical appraisal
3. (12, July) Concepts of bias and confounding
4. (12, July) Critical appraisal of randomized controlled trials
5. (26, July) Critical appraisal of cohort studies
6. (26, July) Student team work: presentation and discussion I
7. (2, August) Critical appraisal of cross-sectional studies
8. (2, August) Critical appraisal of case-control studies
9. (9, August) Critical appraisal of systematic review
10. (9, August) Student team work: presentation and discussion II

Evaluation for Grades & Credits
Participation (70%): Active contribution to discussion, sharing ideas and insights, is critical to the success of project-centered methods training.

Coursework assignments (30%): Homework assignments include interaction/responses to classmates taken from topics covered in class
教科書  Textbooks

To be announced.

參考書  References