システムティックレビュー・メタアナリシス入門
Systematic reviews and Introduction to Meta-analysis

科目番号（Course Number）: 01EQ412
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一般目標（GIO）
Systematic reviews and meta-analyses are useful for decision-making as well as evidence-based clinical and public health practice. This course will provide a detailed description of the systematic review process, discuss the strengths and limitations of the method, and provide step-by-step guidance on how to perform a systematic review and meta-analysis

行動目標（SBO）
Specific topics to be covered include: formulation of the review question, searching of literature, quality assessment of studies, data extraction, meta-analytic methods, assessment of heterogeneity and report writing. RevMan statistical software will be used to perform meta-analysis during the computer lab, along with tutorials on how to effectively use tools such as PubMed for conducting reviews.

授業項目 Lecture Schedule/Main Topics
1. （7, Oct） Introduction: overview of systematic reviews
2. （7, Oct） Defining the research question
3. （18, Oct） Developing a systematic review protocol, RevMan software
4. （18, Oct） Literature search techniques and strategy
5. （21, Oct） Selection and screening of studies
6. （21, Oct） Evaluating the quality of studies
7. （28, Oct） Data extraction and synthesis
8. （28, Oct） Introduction to meta-analysis
9. （6, Nov） Interpreting the evidence
10. （6, Nov） Presenting results

評価方法 Evaluation for Grades & Credits
Participation (60%): Active contribution to discussion, sharing ideas and insights, is critical to the success of project-centered methods training.
Coursework assignments (20%): Homework assignments include interaction/responses to classmates
taken from topics covered in class
Research project presentation (20%): The complete project is presented with scholarly flair

**Textbooks**

Cochrane Handbook for Systematic Reviews of Interventions 5.1.1
Available online at: [http://handbook.cochrane.org/](http://handbook.cochrane.org/)

**References**

2. Introduction to Evidence based Public Health. Available online at: [http://ebph.ihrp.uic.edu/](http://ebph.ihrp.uic.edu/)