

ADVANCED SYSTEMATIC REVIEW & META-ANALYSIS WORKSHOP

About this course:

The course will cover systematic reviewing of non-standard randomized controlled trials and observational studies (NRCTO). Topics addressed include design and analysis of NRCTO, advanced literature search and reference management (e.g. EndNote), risk of bias appraisal and meta-analysis of NRCTO. The course will be delivered through a mixture of interactive presentations, small-group discussions, and hands-on computer exercises.

25-26 Feb
2016

Venue: Duke-NUS Graduate Medical School Singapore
Early bird S\$650 w/o GST (up to 30 Nov 2015)
Regular S\$750 w/o GST (after 30 Nov 2015)

Who should attend?

This course is designed as advanced follow-on training for clinical and public health researchers, healthcare professionals and policymakers who want to move beyond systematic reviewing of parallel-group randomised control trials (RCT).

The course assumes that participants are familiar with the topics covered in our Basic Systematic Review Workshop, specifically:

- i. defining a focused question for therapeutic effectiveness
- ii. developing a search strategy and searching PubMed
- iii. critically appraising a parallel group RCT design
- iv. treatment effect measures for binary and continuous outcomes
- v. meta-analysis of RCTs and investigating heterogeneity in a review
- vi. using RevMan 5 software to create an intervention review

WORKSHOP SCHEDULE

Day 1 Advanced Literature Search & Systematic Review	
Time	Contents
08:30 – 08:50	Registration & Collection of Course Materials
08:50 – 09:00	Welcome Address
09:00 – 09:45	Essentials of Non-standard RCT Designs
09:45 – 10:20	Essentials of Observational Study Designs
10:20 – 10:35	Tea Break
10:35 – 11:00	Varieties of PICO for NRCTOs
11:00 – 11:40	Literature Search (Cochrane Library, EMBASE, OVID, SCOPUS)
11:40 – 12:30	Reference Management
12:30 – 13:30	Lunch
13:30 – 14:15	Risk of Bias appraisal for Cluster & Crossover trials
14:15 – 15:15	Risk of Bias appraisal for Observational studies
15:15 – 15:30	Tea break
15:30 – 16:30	Small Group Activity
16:30 – 17:30	Computer Lab Session
Day 2 Advanced Meta-analysis (MA)	
Time	Contents
09:00 – 09:30	Generic Inverse Variance Method
09:30 – 10:30	Analysis & MA of Non-standard RCTs
10:30 – 10:45	Tea break
10:45 – 11:30	Small Group Activity
11:30 – 12:30	Analysis & MA of Observational Studies
12:30 – 13:30	Lunch
13:30 – 14:30	Small Group Activity
14:30 – 15:00	Computer Lab Session
15:00 – 15:20	Tea break
15:20 – 16:20	Meta-regression
16:20 – 17:00	Small Group Activity