

WORKSHOP ON
**META-ANALYSIS & NETWORK META-ANALYSIS:
 CONCEPTS, METHODS, APPLICATIONS**

Presented by: Dr. Joseph Beyene and the Statistics for Integrative Genomics and Meta-Analysis (SIGMA) Research Group, Dept. of Clinical Epidemiology & Biostatistics, McMaster University

Dates: May 25th, 26th, 27th, 2016

Venue: Michael G. DeGroot Center for Learning and Discovery, McMaster University, 1280 Main St W, Hamilton, ON L8S 4L8

Objective:	Our three-day workshop will provide an overview of both conventional meta-analysis and network meta-analysis practices. Integrating real examples with structured lessons, participants will gain an understanding of key meta-analytic concepts and statistical models for the synthesis of evidence comparing two or more interventions. Through small-group hands-on tutorials, they will experience conducting and interpreting meta-analyses and network meta-analyses. After an interactive workshop, participants will leave with an ability to interpret and apply meta-analytic approaches in their practice.		
Content and structure:	<u>Day 1: Conventional Meta-Analysis</u> - Statistical modeling and methodological issues (fixed and random effects, heterogeneity, meta-regression) - Meta-analysis of prevalence studies, intervention studies, diagnostic test accuracy studies, individual participant data - <u>Hands-on with meta-analysis in R</u>	<u>Day 2: Network Meta-Analysis</u> - Key concepts (indirect and mixed evidence) - Statistical modeling (unified generalized linear modeling framework for different outcome types, Bayesian and Frequentist estimation, interpreting output, reporting, inference) - <u>Hands-on with network meta-analysis in R</u>	<u>Day 3: Network Meta-Analysis</u> - Assessing assumptions and dealing with violations (heterogeneity, transitivity, inconsistency) - Assessing model fit (goodness of fit statistics) - <u>Hands-on with network meta-analysis in R</u>
Daily Timing:	9:00am – 5:00pm	9:00am – 4:00pm	9:00am – 4:00pm
Target Audience:	Clinicians, epidemiologists, statisticians, and policy makers interested in meta-analysis and network meta-analysis.		

Assumed Knowledge and Materials:	Attendees are assumed to have a basic understanding of common statistical concepts (e.g., confidence intervals and hypothesis tests) and, though not essential, some prior knowledge of meta-analytic concepts would be a benefit. Attendees should bring a laptop to participate in the hands-on components.
Capacity:	Maximum of 40 participants (~10 per group during small-group sessions).
Registration and payment:	To register, visit the workshop webpage on our SIGMA website (http://beyene-sigma-lab.com/workshops/) and follow the instructions. Step 1: Fill out online registration form – deadline to register online is May 2 nd , 2016. Step 2: Make payment – deadline to make payment is May 13 th , 2016. Regular Fee: McMaster Internal Transfer: \$600; Otherwise: \$678 (600 + 13% HST) Student (Full-time) Fee: McMaster Internal Transfer: \$400; Otherwise: \$452 (400 + 13% HST) Registration fee includes 3 hot lunches, 6 coffee breaks, and all course materials (including code).
Contact:	For further information, please contact our workshop email: nmaworkshop@beyene-sigma-lab.com or Dr. Joseph Beyene (beyene@mcmaster.ca).
Testimonials from past attendees	<p><i>"This was an amazing workshop helped clarifying many concepts & introduced me to new concepts. Thank you so much I look forward to your next workshop."</i></p> <p><i>"The lectures were very informative and interesting. The facilitators did a good job with the practicums."</i></p> <p><i>"Great work overall! I hope you put up this workshop again. I will definitely recommend it to my colleagues."</i></p> <p><i>"The contents are comprehensive and pragmatic for my understanding and use in the future."</i></p> <p><i>"Excellent. The structure of the sessions is very well designed. The sessions are straightforward, with high quality and helpful for both the starters of NMA and the 'experts'."</i></p>