

Public Health Training Camp 2020 *(Autumn Session)*

Workshop on “Systematic Review and Meta-analysis”

Facilitators

Erika Ota, Professor, St. Luke's International University, Japan

Shahjahan Khan, Professor, University of Southern Queensland, Australia

Mizanur Rahman, Assistant Professor, The University of Tokyo, Japan

Ashraful Alam, Assistant Professor, The University of Tokyo, Japan

Jenny Jung, Research Fellow (Senior Research Scientist), Global Public Health Research Foundation

Host: **Global Public Health Research Foundation, Bangladesh**

Teaching mode: **Online [Zoom]**

Duration: 3 days (29th, 30th and 31st October 2020)

Registration deadline: **September 25, 2020**

Online registration form: <https://forms.gle/QYcAs8XEjvYnRmMr9>

Contents

Date & Time	Content	Facilitators
Day 1 29 th October, 2020 (1) 10:00 -12:00 (2) 14:00 -16:00 GMT+6 time	Overview and Search <ol style="list-style-type: none">1. Introduction to systematic review [EO]2. Search strategy and database search [MR]3. Screening using Endnote/ Rayyan [JJ] Practical-I: PubMed search [MR/AA]	Erika Ota [EO]; Mizanur Rahman [MR]; Ashraful Alam [AA]; Jenny Jung [JJ]
Day 2 30 th October, 2020 (1) 10:00-12:00 (2) 14:00-16:00 GMT+6 time	Introduction to Meta-analysis <ol style="list-style-type: none">1. Meta-analysis [MR]2. Heterogeneity [MR]3. Publication bias [MR] Practical-II: Meta-analysis using Stata/R [MR/AA]	Mizanur Rahman [MR]; Ashraful Alam [AA]
Day 3 31 st October, 2020 (1) 10:00-12:00 (2) 14:00-16:00 GMT+6 time	Meta-analysis Models and Methods <ol style="list-style-type: none">1. Statistical models for meta-analysis [SK]<ul style="list-style-type: none">• Fixed effect model• Random effects model2. Subgroup analysis and meta-regression [SK] Practical-III: Meta-analysis using Stata/R [MR/AA]	Shahjahan Khan [SK]; Mizanur Rahman [MR]; Ashraful Alam [AA]

NB: Participants are required to install Stata version 11 or more/ R 3.6.3 software and R studio.

Description

Due to the exponentially growing quantity of scientific literature, it is critical to synthesize reliable research for evidence-based decision making. Systematic reviews play a vital role in providing updated and reliable synthesis of established evidence. This three-day course covers systematic review, from a fundamental understanding to step-by-step guidance on how to independently conduct a systematic review and meta-analysis. The course covers key topics including: developing a focused question; literature search and screening; data management and extraction; quality assessment of studies; assessment of bias; and handling heterogeneity. The course also presents basic statistical methods such as selection of models for qualitative and quantitative meta-analysis, fixed and random-effects models, subgroup analysis, source of bias, and meta-regression. Participants will have the opportunity to gain practical experience by conducting practical tasks and by the end of the course, they will gain necessary skills to conduct their own high-quality systematic review and meta-analysis.

Course Fee

Course fee: **Bangladesh: BDT 1000** for students and **BDT2000** for professionals.
International: \$60 for both students and professionals.

Contact



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