Public Health Training Camp 2021 *(Spring Session)*

Online 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*

Shamima Akter, *Assistant Professor, Hitotsubashi University, Japan*

Md. Rashedul Islam, *PhD candidate, The University of Tokyo, Japan*

Host: Global Public Health Research Foundation, Bangladesh
Teaching mode: *Online [Zoom]*
Duration: *3 days (26th, 27th and 28th March 2021)*
Registration deadline: **March 5, 2021**
Online registration form: *gphrf.org/index.php/registration/workshop*

📋 Contents

Date & Time	Content	Facilitators
Day 1 *26th March, 2021* *(A) 10:00 -12:00* *(B) 12:00 - 13:00* *GMT+6 time*	**Overview and Search** 1. Introduction to systematic review [EO] 2. Search strategy and database search [MR] 3. Screening using Rayyan [SA/RI] **Practical-I:** PubMed search [MR, SA, AA, RI]	Erika Ota [EO]; Mizanur Rahman [MR]; Ashraful Alam [AA]; Shamima Akter [SA]; Rashedul Islam [RI]
Day 2 *27th March, 2021* *(A) 10:00-12:00* *(B) 12:00-13:00* *GMT+6 time*	**Meta-analysis Models and Methods** 1. Meta-analysis: concept and terminology [MR] 2. Statistical models for meta-analysis [SK] • Fixed effect model • Random effects model 3. Subgroup analysis and meta-regression [SK] **Practical-II:** Data extraction and analysis [MR, SA, AA]	Shahjhan Khan [SK]; Mizanur Rahman [MR]; Ashraful Alam [AA]; Shamima Akter [SA]
Day 3 *28th March, 2021* *(A) 10:00-11:30* *(B) 11:30-13:00* *GMT+6 time*	**Quality assessment and reporting** 1. Risk of bias assessment [MR] 2. How to write systematic review and meta-analysis paper? [SA/MR] 3. Q & A **Practical-III:** Meta-analysis using Stata/R [MR, AA, RI]	Mizanur Rahman [MR]; Shamima Akter [SA]; Ashraful Alam [AA]; Rashedul Islam [RI]

NB: Participants are required to install Stata version 11 or latest / R 3.6.3 or latest software. Basic knowledge on Stata/R is required.

ℹ️ 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

Bangladesh: **BDT 1500** for students and **BDT 2500** for professionals.

International: Low- & lower middle-income countries
$30 for both students and professionals.

Upper middle- & high-income countries
$60 for both students and professionals.

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