Public Health Training Camp **2020** *(Autumn Session)*

Workshop on
"Data Management, Analysis and Mapping in R"

🧑‍🏫 Facilitators

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

Shafiur Rahman, *Assistant Professor, Hamamatsu University School of Medicine, Japan*

Rashedul Islam, *PhD Candidate, The University of Tokyo, Project Researcher, National Cancer Center, Japan*

Host: **Global Public Health Research Foundation, Bangladesh**
Teaching mode: *Online [Zoom]*
Duration: *3 days (10th, 11th and 12th October 2020)*
Registration deadline: September 25, 2020
Online registration form: *https://forms.gle/QYcAs8XEjvYnRmMr9*

📋 Contents

Date & Time	Content	Facilitators
Day 1 *10th October, 2020* *(1) 10:00 -12:00* *(2) 14:00 -16:00* *GMT+6 time*	**Introduction to Basics** 1. Brief overview 2. Managing files, data imports and exports 3. Data preparation 4. Operators & functions 5. Data types in R	**Ashraful Alam;** **Shafiur Rahman;** **Rashedul Islam**
Day 2 *11th October, 2020* *(1) 10:00-12:00* *(2) 14:00-16:00* *GMT+6 time*	**Data Management** 1. Relational data 2. Factors 3. Date & times 4. Summary statistics 5. Basic R programming	**Ashraful Alam;** **Shafiur Rahman;** **Rashedul Islam**
Day 3 *12th October, 2020* *(1) 10:00-12:00* *(2) 14:00-16:00* *GMT+6 time*	**Visualization & Mapping with R** 1. R basic graphics 2. Graphics with ggplot2 3. World map 4. National & sub-national map	**Ashraful Alam;** **Shafiur Rahman;** **Rashedul Islam**

NB: Participants are required to install R 3.6.3 software.

📄 Description

In this tutorial course you will learn how to manage, analyze and present your data in R. You will learn how to install and configure software necessary for a statistical programming environment and define generic programming language concepts as they are implemented in a high-level statistical language. This course contains practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code.

This introduction to R programming course will help you master the basics of R. In three session, you will cover its basic syntax, making you ready to undertake your own first data analysis using R. Starting from variables and basic operations, you will eventually learn how to handle data structures such as vectors, matrices, data frames and lists. In the final section, you will dive deeper into the graphical capabilities of R, and create your own stunning data visualizations. No prior knowledge in programming or data science is required.

🎓 Course Fee

Course fee: **Bangladesh:** **BDT 1000** for students and **BDT 2000** for professionals.
International: **$60** for both students and professionals.

📧 Contact

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