Workshop Series 2019 - 20
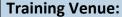
Basic Statistical Analysis using R

Jul 30 – Aug 2, 2019

(Last date of registration: Jul 16, 2019)

Course Director: **Prof. Sanjay Zodpey, Director**

Course Coordinator: **Dr. Ranjana Singh, Associate Professor and Ms. Nilima, Senior Lecturer**

INDIAN INSTITUTE OF PUBLIC HEALTH DELHI

Training Venue:

Indian Institute of Public Health- Delhi

Public Health Foundation of India

Plot 47, Sector 44, Institutional area, Near HUDA City Centre metro station, Gurgaon-122002, Haryana, India

Key Contact person:

Ms. Tanuja Bhandari, Assistant Manager – Program (Trainings)

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About the workshop

Statistics helps researchers make sense of the data collected and to make informed decisions. Basic understanding of statistical concepts help in not only deciding on the suitable analysis but to understand what results a statistician generates. R is free open source software widely used for data analysis. R has a richer set of statistical packages which makes it convenient to use for health sciences researchers.

This workshop is designed to introduce fundamental statistical principles and methods with application to health-related research using R software. Individuals who wish to use statistics to make fact based decisions can attend this workshop.

After completing this workshop, the participants will be able to decide on the most suitable statistical technique to be used in common study designs, understand the basic principles of the statistical tests and reflect on suitable measures to be reported

Contents

- Introduction to R
  - About the software
  - Data Management
- Introduction to descriptive statistics
  - Understanding data
  - Numerical summary
  - Visualization of data
- Inferential Statistics
  - Sampling distribution and confidence-interval
  - Basics of testing of hypothesis
  - Tests of significance–Parametric and Non Parametric
- Modelling Data
  - Linear Regression
  - Logistic Regression

Registration Fee

Indian National: 10000 INR per participant

Foreign National: 20000 INR per participant

The registration fee includes course kit, lunch and snacks. Please note that the participants will have to bear their own travel, boarding and lodging expenses. However, the organizers will be able to provide a list of hotels or guesthouses nearby the institute upon request.

Who should attend?

This workshop is ideal for public health and medical researchers including medical students, study coordinators, project managers, medical writers, data managers, pharmaceutical scientists, statisticians, and those working in the health sector.

About the faculty

Dr Ranjana Singh is a full-time faculty at the institute with formal training in Statistics, Population studies and Biostatistics. She has around 10 years of experience in the field of health research and applied statistics. Dr Singh is extensively involved in teaching in all in-house and online distance learning academic programs and workshops at the institute. Apart from substantial teaching, she is also engaged in few of the research projects in the field of maternal and child health as a statistician.

Ms. Nilima is a faculty at the Institute with the formal training in Statistics and Biostatistics. She has 5 years of experience in data analysis, mapping and public health research. She is involved in teaching Biostatistics to the in-house academic programs, workshops and in short term courses held at the institute. Area of her research interest is Spatial statistics and their application in public health.

How to apply?

Interested participants may email their completed registration form at **trainings@iiphd.org** and submit the fee by E-transfer **or** by Demand Draft in favor of "Public Health Foundation of India" payable at Delhi and dispatch to the key contact person. **Bank details for E-transfer will be shared upon request. We do not accept cash**.

International participants are requested to submit the fee **only by E-transfer.**

The seats are limited therefore, registrations will be confirmed first come first serve basis.