

WORKSHOP SERIES ON BIOSTATISTICS

NOVEMBER 04-20, 2019

INDIAN INSTITUTE OF PUBLIC HEALTH, HYDERABAD



ABOUT THE COURSE

We at Indian Institute of Public Health, Hyderabad are organizing a series of **eight** workshops from 4 to 20th November 2019. The purpose of these workshops is to introduce participants to the effective methods of data management and analysis using SPSS, STATA and Epi InfoTM software.

This workshop is targeted for Post graduates, PhD scholars, Research staff, and Professionals in various fields. By the end of these workshops, the participants would be able to manage and analyze research data using SPSS, STATA, and Epi-InfoTM software and interpret and present the findings in a systematic way.

HOW MANY SEATS ARE AVAILABLE?

Registration for each workshop will be limited to a minimum of **five** and a maximum of **30**, and will be done on a “**first- come, first-serve**” basis.

Public Health Foundation of India (PHFI) is a response to address the limited institutional capacity in India for strengthening training, research and policy development in the areas of Public Health. It is a public private partnership that was collaboratively evolved through consultations with multiple constituencies including Indian & international academia, state & central governments in India, multi & bilateral agencies & civil society groups in India.

The Indian Institute of Public Health (IIPH) Hyderabad commenced on July 1, 2008, with a mission to deliver public health education, pursue research & advocacy and support policy development. It lays strong emphasis on pursuing public health policy, practice, training & research, positioning its programmes according to the public health priorities of the state & the nation.

IIPH Hyderabad's goals involve training public health professionals through long- and short-term courses each year. Indian Institute of Public Health, Hyderabad is an education arm of Public Health Foundation of India.



Want to analyze your data?

Come and learn

COURSE CONTENT

1. Sample size computation and sampling techniques in health science - **November 4 - 5, 2019**
2. Data management, analysis and interpretation in quantitative health research - **November 6 - 7, 2019**
3. Basic statistics using SPSS - **November 8-9, 2019**
4. Basic statistics using STATA - **November 11-12, 2019**
5. Analysis of cross sectional studies in SPSS and STATA- **November 13-14, 2019**
6. Linear regression in SPSS & STATA - **November 15, 2019**
7. Logistic regression in SPSS & STATA - **November 16, 2019**
8. Basic statistics using Epi Info - **November 19-20, 2019**

WHAT IS REQUIRED OF THE PARTICIPANTS?

- All participants are required to bring their own laptop
- Organizers will **NOT** provide the SPSS software
- SPSS link (trial version) → <https://www.ibm.com/en/analytics/spss-trials>
- Organizers will provide a computer lab for working with STATA software
- Epi Info Link - <https://www.cdc.gov/epiinfo/supp/ort/downloads.html>
- Full attendance is compulsory for certificates
- Participants have to arrange for travel and accommodation.
- Lunch and tea is served on all the days

HOW TO APPLY?

REGISTRATION FEE – 2500 INR

per workshop

Participants can register for single or multiple workshops

Details	Price	Discount Price
Any one	2500	2500
Any two	5000	5000
Any three	7500	7500
Any four	10000	10000
Any five	12500	11500
Any six	15000	13000
Any seven	17500	14000
All eight	20000	15000

Completed registration fee + registration form must be sent to workshopseries2019@gmail.com

ONLINE / OFFLINE

REGISTRATION – see the registration form

DEADLINE:
November 1, 2019

COURSE VENUE:

First floor, VC room,
Indian Institute of Public
Health- Hyderabad, Plot No.
1, Rd Number 44, Masthan
Nagar, Kavuri Hills,
Madhapur, Hyderabad,



IIPH Hyderabad

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COURSE CONTENT

1. SAMPLE SIZE COMPUTATION AND SAMPLING TECHNIQUES IN HEALTH SCIENCE (NOV 4-5, 2019)

- Estimation of mean and proportion
- Comparison of means and proportions for 2 and more than 2 groups
- Comparison of paired means and proportions (2 time points)
- Case control studies based on OR
- Cohort studies based on RR
- Introduction to Sample and Sampling techniques
- Types of probability and non-probability sampling techniques

2. DATA MANAGEMENT, ANALYSIS AND INTERPRETATION IN QUANTITATIVE HEALTH RESEARCH (NOV 6-7, 2019)

- Overview of quantitative research
- Basic epidemiological and statistical concepts for quantitative research
- Data entry and management using SPSS
- Data analysis in quantitative research using SPSS
- Interpreting quantitative data analysis results
- Graphical representation

3. BASIC STATISTICS USING SPSS (NOV 8-9, 2019)

- Introduction to SPSS
- Data entry, import & export data files, saving the output
- Recode and compute
- Finding descriptive statistics
- Confidence intervals
- Parametric and Non-Parametric tests

4. BASIC STATISTICS USING STATA (NOV 11-12, 2019)

- Introduction to STATA
- Data entry, import & export data files, saving the output
- Recode and compute
- Finding descriptive statistics
- Confidence intervals
- Parametric and Non-Parametric tests

5. ANALYSIS OF CROSS SECTIONAL STUDIES IN SPSS & STATA (NOV 13-14, 2019)

- Introduction to Cross sectional studies
- Introduction to SPSS and STATA
- Finding descriptive statistics
- Confidence intervals
- Finding associations/relationships using Parametric and Non-Parametric tests
- Graphical representation

6. LINEAR REGRESSION IN SPSS & STATA (NOV 15, 2019)

- Correlation and its types
- Introduction to regression and least square method
- Simple linear regression model and its assumptions
- Multiple linear regression model and its assumptions
- Dummy variables
- Interpretation and reporting

7. LOGISTIC REGRESSION IN SPSS & STATA (NOV 18, 2019)

- Odds and Odds ratio
- What, when and why Logistic regression?
- Difference between linear and logistic regression
- Simple logistic regression model and its assumptions
- Multiple logistic regression model and its assumptions
- Dummy variables
- Interpretation and reporting

8. BASIC STATISTICS USING Epi Info™ (NOV 19-20, 2019)

- Design data entry form
- Validation and simple customization of the form
- Data entry
- Basic analysis and visualization using dashboard
- Analysis and visualization using classic; clean, transform, and analysis data with commands
- Statistical calculator for sample size, power and more

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