

Application of Biostatistics in Clinical Research

2nd Edition

22-25 January 2020

Dept. of Biostatistics, NIMHANS, Bangalore

- ◆ This 4-day workshop is intended for faculty members (senior or junior), researchers, as well as postgraduates from medical, behavioral and allied health sciences.
- ◆ Workshop consists of lectures with suitable examples from medical and behavioral sciences.
- ◆ Workshop consists of extensive, interactive 'hands on' sessions on bivariate and multivariate data analyses using SPSS.
- ◆ Course is limited to 40 participants.
- ◆ Course fee is Rs.4000/-. Those who wish to join for first 3 days or just the last day need to pay only Rs.3000/- or Rs. 1000/- respectively.

Contact us:

Dr. Mariamma Philip

Dr. Prathyusha P.V.

Dept. of Biostatistics,
Dr. M V Govindaswamy Centre,
NIMHANS, Bangalore-29.

nimhans.workshop@gmail.com

Ph: 080-26995717 / 5715 (10am-4pm)



Course contents

- ◆ Study Designs.
- ◆ Sampling Techniques.
- ◆ Descriptive Statistics
- ◆ Why test Normality?
- ◆ Bivariate Analyses
 - ◆ t-tests -student & paired
 - ◆ χ^2 , Fisher's, McNemar's tests
 - ◆ ANOVA –one way, two-way
 - ◆ Correlation - Pearson, Spearman
 - ◆ Non-parametric methods
- ◆ Regression analysis
 - ◆ Linear
 - ◆ Logistic
- ◆ Analysis of covariance.
- ◆ Repeated Measures ANOVA.
- ◆ Sample size estimation.
- ◆ Test Construction and Factor Analysis *
- ◆ Survival Analysis *

* Delegates can choose,
popular request will be covered.

Encouraging feedback from
delegates of previous
edition.



Based on 96 delegates

Experienced faculty.
Accommodation within campus.
Eco friendly, BYOB workshop.

Application of Biostatistics in Clinical Research

22-25 January 2020

Venue:

Department of Biostatistics
Dr. M.V. Govindaswamy Centre



National Institute of Mental Health and
Neurosciences
Institute of National Importance
Bengaluru – 29

Co-ordinators

Dr. Mariamma Philip,
Associate Professor

Dr. Prathyusha PV
Research Assistant

Course Description:

This 4-day intensive programme mainly consists of lectures and practical sessions with emphasis on examples from medical and behavioural sciences. Delegates would have hands on exposure on bivariate and multivariate data analyses using SPSS.

Course contents

- Study Designs
- Sampling Techniques
- Bivariate Analyses
- Non-parametric methods
- Linear regression analysis
- Logistic regression analysis
- Analysis of covariance
- Repeated Measures ANOVA
- Sample size estimation
- **Scale construction & Factor Analysis***
- **Survival Analysis***

* Delegates can choose & popular request would be covered

Objectives of the course:

To enable delegates

- To efficiently design studies
- To comprehend the application of statistical tests.
- To confidently analyse the datasets
- To appreciate and understand the outputs from SPSS

Who can apply?

This programme is intended for faculty, researchers and post graduates from medical, behavioural and allied health sciences who are keen on furthering their knowledge in statistical methodology. Those who are not keen to pick up SPSS can benefit to understand the SPSS outputs and interpret findings.

Registration

The number of participants will be restricted to about 40 and will be on a first come first serve basis.

Registration Fee

The course fee to be paid through NEFT. Payment details are on the next page. Fee includes training, resource material and hospitality during the day.

Accommodation

Limited non-A/C accommodation can be arranged at the nearby guest house on request. Room rent is to be paid at Guest house, after arrival. Rs.300/day for shared occupancy and Rs.600/day for single occupancy.

Brain Museum / Heritage Museum visit

Delegates would be given an opportunity to visit NIMHANS brain museum or Heritage museum.

How to register?

Registration is online and can be done only after payment. Online registration would be active only for the first 40 registrations. Please send us the NEFT receipt by e-mail to nimhans.workshop@gmail.com. Registrations would be confirmed only after the receipt of the payment.

Contact information

Dr. Mariamma Philip / Dr. Prathyusha PV
Dept. of Biostatistics,
Dr. M V Govindaswamy Centre,
NIMHANS, Bangalore-29
Ph: 080-2699 5717 / 5715 (9.30 AM - 4.00 PM)
nimhans.workshop@gmail.com

Application of Biostatistics in Clinical Research

22-25, January 2020

Department of Biostatistics

National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore.

PAYMENT DETAILS

Amount: Rs. 4000/- (for all 4 days)
Rs. 3000/- (for first 3 days : 22-24 January 2020)
Rs. 1000/- (for last day : 25 January 2020) **

Mode: NEFT
Account Holder's name: The Director, NIMHANS
Account name: NIMHANS Project Account
Account number: 54004640402
Account Type: Savings
MICR code: 560002480
IFSC code: SBIN0040675
Branch Code: 40675
Branch: State Bank of India, NIMHANS

[Click here to register: Registration Form](#)

Note: Please send NEFT transaction receipts to the e-mail id nimhans.workshop@gmail.com

** Only for those who are familiar with Bivariate techniques like t-test, ANOVA, Chi-square, Correlation, partial correlation and its SPSS application or attended previous similar workshops.

Schedule of the workshop

22-1-2020		23-1-2020		24-1-2020		25-1-2020	
8.30 - 9.00	Registration & Breakfast	8.30 - 9.00	Breakfast	8.30 - 9.00	Breakfast	8.30 - 9.00	Breakfast
9.00 - 9.45	Inauguration, Introduction of participants & Group Photo	9.00 - 9.15	Re-cap / Doubts	9.00 - 9.15	Re-cap / Doubts	9.00 - 9.45	Multiple Linear Regression
		9.15- 10.00	Comparison of Means (One-way, two way ANOVA)	9.15- 10.15	Categorical Data Analysis (Chi-square & Mc Nemar's)		
9.45 - 11.00	Descriptive statistics (Descriptive stats, Normality)	10.00- 10.30	Practical - IV (ANOVA)	10.15- 11.15	Practical - VI (Chi-square & Mc Nemar's test)	9.45- 10.30	Practical IX
						10.30 - 11.30	Logistic Regression (Simple & Multiple)
11.00- 11.15	Break	10.30- 12.00	Study Designs (Observational & Experimental)	1.15-11.30	Break	11.30- 12.15	Practical - X (Logistic regression)
11.15- 12.30	Basics of Inference (CI, errors; p-value, power, tails)			11.30- 12.30	Relationship among variables (Correlation - Linear & non Linear, Partial)		
12.30- 1.15	Practical - I Understanding SPSS (data entry, Opening, saving files, data types)	12.15-1.15	Sampling Techniques (Prob & Non Prob sampling)	12.30-1.15	Practical - VII (Correlation)	12.15 - 1.15	Analysis of Repeated assessments & Analysis of covariance
1.15 - 2.00	Lunch	1.15 - 2.00	Lunch	1.15 - 2.00	Lunch	1.15 - 2.00	Lunch
2.00 - 3.15	Practical - II Descriptive Statistics	2.00 - 2.45	Non parametric Methods (Mann Whitney, Wilcoxon Sign Rank, Kruskal wallis tests)	2.00 - 3.30	Linear Regression (Simple)	2.00 - 3.00	Practical - XI (RMANOVA, Friedman & ANCOVA)
						3.00 - 4.30 @ depends on choice	Scale construction / Survival Analysis Practical - XII (Chronbach's alpha, Factor Analysis) / Survival Analysis
3.15 - 4.00	Comparison of Means (one sample, t-test, paired t-test)	2.45 - 4.00	Brain museum / Heritage Museum		Practical - VIII		
4.00- 4.15	Tea	4.00-4.15	Tea	3.30-3.45	Tea	4.30	Tea
4.15 - 5.00	Practical - III (t-test, paired t-test)	4.15 - 4.45	Practical V (Mann Whitney test, Wilcoxon Sign Rank, Kruskal Wallis tests)	3.45- 4.45	Sample Size Estimation		

