

Pre-Conference Workshop on
“Statistical Methods for Medical Research”
23rd November 2022
Venue : Hall ‘Neptune’
(Time : 8.45AM to 5.00PM)

TIME	CONTENTS	RESOURCE PERSON / FACULTY
7.45am - 8.45am (60min)	Breakfast and Registration	
8.45am- 9.00am(15min)	Inauguration & Welcome address (Introduction to Faculty)	
9.00am -9.35am(35min)	Research design in medical research: <i>Observational Studies (Descriptive and Analytical), Experimental studies,</i>	Dr Atul Juneja
09.35am-10.10am(35min)	Descriptive Statistics : <i>Data measurement scales, presentation and summarization of the statistical data , , Variability, skewness and kurtosis</i>	Hemant J Pawar
10.10am-10.45am(35min)	Probability and Non Probability sampling : <i>Simple Random Sampling, Stratified, Cluster, Systematic , Purposive , Convenience , snow ball sampling.</i>	Dr. Kulkarni MS
10.45am-11.00(15min)	Tea break	
11.00am-11.45am(45min)	Correlation and Regression : <i>Karl Pearson correlation coefficient , Spearman rank correlation , Linear Regression</i>	Dr PP Sharma
11.45pm-12.30(45min)	Testing of hypothesis & Inferential statistics-I (Parametric tests) : <i>Null and Alternative Hypothesis, Type-I and Type-II Error, Alpha and Beta error, Confidence level, Power, Assessment of data following normal distribution, student t test, ANOVA etc</i>	Dr. Kulkarni MS
12.30pm-1.15pm(45min)	Inferential statistics -II (Nonparametric tests): <i>Chi Square test, Wilcoxon Signed rank test, Maan Whitney U test (Wilcoxon Rank Sum test), Kruskal Wallis test, Friedman Test</i>	Dr JB Prasad
1.15pm-2.15pm (60min)	Lunch break	
2.15pm-3.30pm(45min)	Sample size determination: <i>Estimation of Prevalence, Estimation of Mean, Comparison of Means and Comparison of proportions.</i>	Dr PP Sharma
3.30pm -3.45pm(15min)	Tea break	
3.45pm -4.45pm (60 min)	<i>Hands on training using statistical software for calculation of Correlation, Linear Regression, Inferential statistics(Chi Square tests, t test, ANOVA) , and Sample Size determination</i>	Dr PP Sharma Dr. Kulkarni MS Dr Atul Juneja Hemant J Pawar
4.45pm -5.00pm	Feedback & Concluding ceremony and Distribution of Certificates	All Faculty

About Resource Persons:

Dr PP Sharma: Associate Professor (Biostatistics) All India Institute of Medical Sciences Jodhpur Rajasthan

Dr Atul Juneja : Former Scientist F (Biostatistics), National Institute for Medical Statistics (ICMR) New Delhi

Dr Kulkarni MS : Associate Professor (Biostatistics) Goa Medial College , Goa

Hemant J Pawar : Associate Professor (Biostatistics), Pravara Rural Medical College, Loni, Maharashtra

Dr JB Prasaad : Associate Professor and Head, Dept of Epidemiology and Biostatistics, KAHER, Belagavi