

Research Methods and Data analytics in Health-care using SPSS

A primer course

20
CME points

27th & 28th May, 2017

TN Dr.MGR Medical university
CME accredited

A workshop on Research methods and bio-statistical techniques along with data analysis using SPSS to arrive at a significant decisions.

Venue: **Mediscan Systems**
197, Dr. Natesan Road, Mylapore,
Chennai - 600004

Course Content:

- **STUDY DESIGN:**
 - Case control;
 - Cohort and cross sectional studies
 - Randomised clinical trials
- Diagnostic Test accuracy
- **BIostatISTICS METHODS:**
 - Data types
 - Basic statistics: Mean SD, Standard Error prevalence, incidence
 - Graphs: histogram, bar, pie chart
 - Probability distribution: Normal distribution
 - Testing of hypothesis
 - Parametric test:T test, Anova, Ancova
 - Non-parametric test: Man Whitney u test; Kruskal Wallis test; Chi square test
 - Regression methods
 - Sample size calculation
- **CRITICAL APPRAISAL SKILLS**

All practical will be taught and done using **SPSS Software** during the workshop

Format of this workshop

This workshop will use a combination of lectures, individual exercises and discussions, interactive learning and guided assignments, to help participants understand the research design and Biostatistical methods in health research.

Who should attend?

Any person with a background in the health sciences, health policy, or health administration, who is desirous of improving their understanding on research design and data analysis methods in health research., Post graduate students in the health sciences, and those involved in public health, should find this workshop relevant.

Resource Persons

- Dr.Pankaj Shah (*Prof. & Head, Department of Community Medicine, SRMC, Chennai*)
- Dr.Gurusamy Thangavel (*Senior Lecturer [Epidemiology], Department of environmental Health engineering, SRMC Chennai*)
- Dr.Sudarshan Suresh (*Consultant - Fetal medicine, MediScan, Chennai*)
- Dr.Manikandan K (*Consultant - Fetal medicine, MediScan, Chennai*)
- Mr. Richard Kirubakaran (*Biostatistician, Cochrane South Asia, CMCVellore*)
- Mr. Saravanan Kumar (*Lecturer, Medical Biometrics & Informatics [Biostatistics], JIPMER, Puducherry*)
- Mr. John Michael (*Biostatistician, Mediscan Systems*)
- Mr. Prakash (*Biostatistician, Glaxosmithkline pharmaceuticals Ltd, Bangalore*)

Registration:

- Fee: INR 4000/- (Inclusive of 14.5% Service tax)
- Mode of payment: DD / NEFT (refer registration form)
- Space limited to 30 participants: First-comes-served.
- Last date for receipt of filled in registration forms: 24th May, 2017.
- Registration fee includes resource materials, refreshments & lunch.

Cancellation policy:

- Cancellations will be processed only after Jul 31, 2017
- Deduction fee for cancellations till 24th May, 2017: INR 1000
- Deduction fee for cancellations from 25th May, 2017: INR 2000

All participants will receive SPSS trial version

Learning Objectives: By the end of the workshops, participants are expected to...

- Understand the aspects of Research method and study design.
- Understand the aspects of Fundamentals of Biostatistics Methods
- Understand the basic statistical terminology and methods for analysing the data.
- Be confident in classifying data types and conducting analysis of their own data using SPSS software and interpreting the results.

Contact

Mr. John Michael Raj (*Course Co-ordinator*)
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Participants should bring their own laptops

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& Deviation Analytics

Research Methods and Data analytics in Health-care using SPSS

A primer course

Day 1: 27 - 05 - 17

Time	Program
09.00 - 09.15 am	Introduction to workshop
Session 1	
09:15 - 10:15 am	Research methods & study designs
10:15 - 10.30 am	Tea Break
Session 2	
10.30 - 11.30 am	Introduction to Biostatistics, Sampling techniques & Data types
Session 3	
11.30 - 12.30 pm	Diagnostic tests & Agreement
12.30 - 01.00 pm	Lunch Break
Session 4	
01.00 - 02.30 pm	Introduction to SPSS & Data management
Session 5	
02.30 - 03.15 pm	Summarizing Statistics & Practical
03.15 - 03.30 pm	Tea break
Session 6	
03.30 - 04.30 pm	Graphical representation & Practical

Day 2: 28 - 05 - 17

Time	Program
Session 1	
09:00 - 10:00 am	Understanding P-values and Errors
10:00 - 10.15 am	Tea Break
Session 2	
10.15 - 11.15 am	Sample size estimation
Session 3	
11.15 - 12.45 pm	Comparison of means (T-test & ANOVA) & Practical
12.45 - 01.30 pm	Lunch Break
Session 4	
01.30 - 03.00 pm	Tests of association (Chi-square), Non Parametric tests (Mann Whitney, Wilcoxon) & Practical
03.00 - 03.15 pm	Tea break
Session 5	
03.15 - 04.00 pm	Correlation, Regression techniques & Practical
Session 6	
04.00 - 05.00 pm	Critically appraising a journal article

Account details are as follows:

Name of Beneficiary :	Mediscan Systems
Account Type :	Current Account
Name of Bank :	HDFC Bank
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Account Number :	03232560002094
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