



Biostatistics for Doctors



Dates: 20th & 21st June, 2009

Venue: Dhanvanthri Hall, Rajiv Gandhi University of Health Sciences, 4th Block, Jayanagar, Bangalore

Hosted by Journal of Human Reproductive Sciences
Official Publication of Indian Society of Assisted Reproduction

Invitation

We invite you to a scientific session on introduction to the basic principles and applications of statistical methods as they are applied to data arising in the health profession.

Biostatistics is the application of statistics to a wide range of topics in Medicine. The science of biostatistics encompasses the design of biological experiments, the collection, summarization and analysis of data from those experiments and the interpretation of and inference from, the results. Today all of us in medical practice need to have knowledge of biostatistics to weave research into clinical practice.

The program brings together a renowned faculty in the field of research methodology.

On behalf of JHRS we welcome you to Bangalore for a different but interesting scientific program.

We look forward to your presence and active participation.

Dr. Sadhana Desai
President - ISAR

Dr. Kamini Rao
Editor-in-chief

Dr. Shreyas Padgaonkar
Secretary - ISAR

Dr. Madhuri Patil
Assistant Editor

Program

Day 1 - 20th June 2009 - 02.00 – 6.00 PM

Session I:

Research Methodology

- Review of literature
- Pilot study
- Writing protocol for research
- Study design
- Sample size estimation
- Randomization
- Type I & II error
- Effect size and P value

Session II:

Hands on experience using medical data for

- Descriptive statistical analysis
- Construction of questionnaire
- Development of reference interval
- Use of effect size
- P value
- Odds ratio
- Analysis of polymorphisms data



Day 2 - 21st June 2009 - 09.00 AM to 5.00 PM

Session III:

Publishing Papers

- Purpose of scientific writing
- Introduction to scientific writing
- Misdeeds in scientific writing
- Common criticism and rejection reasons

Session IV:

Hands on experience using medical data for

- Chi-square test
- Fisher Exact test (up to 6x6 matrix)
- Student 't' test
- Analysis of variance
- RMANOVA
- Mann Whitney U test
- Wilcoxon Signed ranked test
- Kruskal Wallis test
- Freidman test

Session V:

Statistical analysis using medical data for

- Analysis of covariance
- Correlation and regression analysis and interpretations

Session VI:

- Logistic regression analysis
- Discriminant function analysis and survival analysis

Session VII:

- Diagnostic statistics-sensitivity
- Specificity
- PPV
- NPV
- Accuracy
- Use of ROC curve analysis
- Cochrane Review

Registration Fee

Workshop

Post Graduates - Rs. 750/-
Consultants - Rs.1500/-

Course Description

Journal of Human Reproductive Sciences will conduct a short course in biostatistics that is designed especially for students as well as consultants in the medical field. This course will consist of six sessions.

Course Objectives

By the end of this course, students will be expected to:

1. Recognize and understand statistical methods commonly seen in medical literature
2. Recognize common study designs used in medical research
3. Communicate with statisticians on complex study design and analysis
4. Understand basic concepts of data management
5. Identify appropriate use of statistical procedures when given a common study design
6. Compute confidence intervals and test hypotheses for the most common population parameters and perform an analysis of variance and linear regression, analyze frequency data and understand and critique the statistical component of research arising in the health care.
7. Perform simple statistical analyses under the guidance of a statistician.
8. Organize and summarize data using descriptive statistical techniques

Note: All participants need to get their laptops if they desire hands on experience

Faculty

Dr. D.K. Sahu
Dr. D.K. Subbakrishna
Dr. Korula George
Dr. K.P. Suresh
Dr. M.N. Parikh
Dr. Purvish Parikh

Further Information

Dr. Madhuri Patil

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