

**ADVANCED TRAINING COURSE
ON
SAMPLE SIZE DETERMINATION & POWER
ANALYSIS IN HEALTH RESEARCH
(Online Mode)**

(November 18th -20th, 2024)

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SAMPLE SIZE DETERMINATION & POWER ANALYSIS
IN HEALTH RESEARCH (Online Mode)
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About Training Course:

Sample size calculation is very important part for any health research due to ethical, scientific and logistic reasons. This workshop aims to introduce importance of computing sample size in health research as well as provide practical exercise to compute sample size for various study designs, variables, objectives and hypotheses. The workshop concentrates on the concepts behind various formula for sample size, the execution of each of these formula using a free on-line software like **Statulator** and finally the scientific way of reporting the computed sample size. At the end of this workshop, the participants are expected to be confident enough to compute sample size for various types of study designs in health research.

About Resilient Foundation :

Resilient Foundation for Academic Innovation & Scientific Research, New Delhi is a not-for-profit organization registered under section 8 of the companies' act 2013 India. The organization is established having primary aim to promote academic & research activities through knowledge sharing, innovation, skill development and capacity building in various sectors like academia, industry and government for betterment of society. For more details please visit

<https://theresilientfoundation.org/>

Objective of the Training Course :

During the COVID-19 pandemic, the virtual academic engagement is resultant more productive and gives a better outcome. Keeping in view of the immense benefits of the online workshop in the present educational set-up, **Resilient Foundation for Academic Innovation & Scientific Research, New Delhi** is pleased to offer **Advanced Training Course on Sample Size Determination and Power Analysis in Health Research (Online Mode)** for the faculty members, research scholars, health professionals, industry personals, researchers and UG/PG students of medical colleges in the country during **18th -20th November 2024**. The workshop aims to bring together faculties, health professionals and researchers to exchange and share their experiences and research results on all aspects of sample size calculation & power analysis in health research.

The expected outcome of the workshop:

At the end of workshop, participants would be able to:

- Understand the concepts behind various formulas of sample size
- Calculate the sample size for different study designs
- Use online free software like Statulator for sample size calculation
- Understand to report the calculated sample size

THE COURSE CONTENT OF THE TRAINING COURSE

Day	Topics Covered	Date & time
Day-1	<ul style="list-style-type: none"> ❖ Importance of sample size in research ❖ Understanding of Key factors used in sample size determination ❖ Sample size determination of two means & two proportions for independent and paired design ❖ Sample size with odds ratio and relative risk ❖ Description of some available online calculators ❖ Examples using an online sample size calculator 	<p>Date: 18th November, 2024 Time: 6:30PM-08:30 PM</p>
Day-2	<ul style="list-style-type: none"> ❖ Sample size for clinical trials - Superiority, Non-inferiority, and equivalence ❖ One-way ANOVA ❖ Repeated measure ANOVA ❖ Issue related to the sample size determination ❖ Examples using an available online calculator 	<p>Date: 19th November, 2024 Time: 06:30 PM-08:30 PM</p>
Day-3	<ul style="list-style-type: none"> ❖ Brief understanding of the survival analysis concept used in sample size determination ❖ Sample size determination for survival analysis ❖ Using log-rank and exponential distribution ❖ Sample size reporting format ❖ Examples using an Online sample size calculator 	<p>Date: 20th November, 2024 Time: 06:30 PM-08:30 PM</p>

Methodology

- Online live classes by eminent experts from reputed organizations of the country
- Participatory discussion with Q&A
- Demonstrations
- Hands on Session on free software like Statulator
- Study materials in the form of recordings of the all sessions

Nature of Participants

Faculties, health professionals , medical students, post-doctoral fellows, industry professionals , UG, PG students of medical colleges and relevant areas etc.

Duration &Time

Three Days (18th - 20th November, 2024)

Timing (02 Hours): 06:30 PM-08:30 PM

Registration Process:

Step-I: Fee Payment:

1. Registration Fee for all participants = Rs. 500 /-

Registration Link (for all participants)

<https://theresilientfoundation.org/current-events/>

Step-II: After payment, you will get confirmation mail on your registered mail.

Link of whats app group will be shared in that mail.

Workshop Rule

Highlights of the Workshop-

1. Registered participants will get e-certificates
2. Study material in the form of ppt and video recording of all sessions will be provided to all registered participants.
3. **Workshop** by Subject Experts from reputed Institute like AIIMS, New Delhi
4. **Workshop** will be on the Zoom meeting platform.

For further queries, please mail us at : info@resilientfoundation.in or call at +91-8840112492.

Last Date of Registration: 18th November, 2024

Our Resource Person



Dr. RAJEEV KUMAR MALHOTRA

Senior Scientist (Statistics), Dr BRA IRCH, AIIMS Delhi

Educational Qualification:

Ph.D. (Biostatistics) from the Department of Biostatistics and Medical Informatics, UCMS under the University Department of Community Medicine, Faculty of Medical Sciences, Delhi University. 2013

Research and Teaching Experience:

More than 25 years of research experience in guiding and statistical analysis of faculty PGs, and PhD students starting from planning to study to the interpretation of study results. Published 1 research articles in National and International journals, wrote two chapters and co-author of a book "Medical Biostatistics". Co-supervisor in the MD thesis for more than 20 students. Co-investigator in various projects. Bio-statistical lectures for radiotherapy MD students and in academic session of the Dr BRA IRCH, AIIMS, Delhi.

Awards

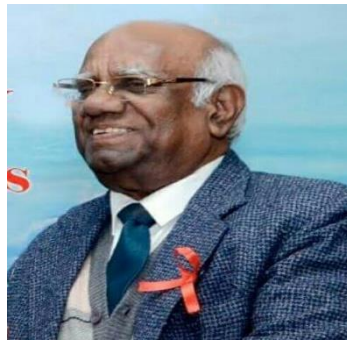
The Prof B.G. Prasad Award awarded by the Indian Society of Medical Statistics for the best-published paper in the year 2020. Indian Paediatric Journal Awarded the highest citation award to our paper titled "Receiver Operating Characteristic (ROC) Curve for Medical Research" published in 2011 at Noida on 8th December 2019.

Dr. Abhaya Indrayan Award for recognition of paper titled "Receiver Operating Characteristic (ROC) Curve for Medical Research" received at the Annual Conference of the National Academy of Medical Sciences organized at Mahatma Gandhi Medical College & Research Institute, Pondicherry on 26th to 28th October 2018

Area of Interest:

Generalized linear mixed model, Cancer Epidemiology, Generalized estimating equation (GEE), Survival Analysis, Sample size determination, Longitudinal data analysis, Bootstrapping, Meta-analysis, and Diagnostic methods.

Organising Team of the Workshop



Patron

Prof. (Dr.) Padam Singh
Former Additional Director
General
Indian Council of Medical
Research (ICMR), New Delhi

Co - Patrons



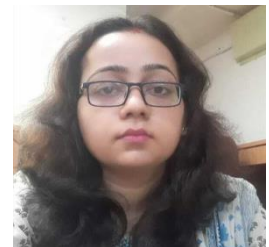
Dr. Ashoo Grover
Senior Scientist
ICMR, New Delhi



Dr. Smita Asthana
Senior Scientist
ICMR- NICPR, Noida



Prof. Karan P. Singh
School of Medicine, University of
Texas, USA



Mrs. Richa Singh
Director
Resilient Foundation for Academic
Innovation & Scientific Research,
New Delhi

Workshop Coordinators



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(Convenor)



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India