

Pre conference Workshops W11 : Research Methodology and Biostatistics: The Basics

W11



Date: 11TH December 2025



Time: 08:30 AM - 05:00 PM

Venue: MEU Hall, GITAM Institute Of Medical Sciences and Research

National Coordinator

Dr. Virraghavan , Dr. Hari Balakrishna

Mob : +91 8130402185

Local coordinator

Dr. Lalita Wadhwa

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₹ **1180/-**
Including GST

Registration Fee

Click here to Register
or Scn the QR Code



Dr. V.C Manoj
President-2025

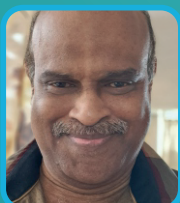


Dr. Lalan K Bharti
Chairperson Scientific Committee
(President Elect-2025)



Dr. Amit Upadhyay
Secretary General-2025-2026

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Agenda

Learning objective:

To learn to formulate a research question, understand principles of study design, sampling, develop a research protocol, and data collection, and gain familiarity with statistical analysis and interpretation of research data.

Expected outcome:

To be able to conduct a well-designed study, generate a validate hypothesis, map knowledge gaps and explore further avenues of potential future research through interpretation of the conclusions from your primary research.

| Time | Topic |
|----------------------|---|
| 8:30 am – 9:00 am | Registration & Networking Breakfast Meet fellow researchers, connect with mentors, and set for a day of learning and collaboration. |
| 9:00 am – 9:10 am | Welcome & Introduction Overview of the workshop goals — building a foundation for designing and analyzing primary research. |
| 9:10 am – 9:30 am | Understanding Your Data: Foundations of Data Types & Distributions Learn how the understanding of data types and measures (mean, median, SD) guides robust research design, analyses and reporting. |
| 9:30 am – 10:00 am | Choosing the Right Study Design for Your Research Question Explore how to match your question to the right study design — from observational studies to RCTs. |
| 10:00 am – 10:10 am | Interactive Q&A Clarify, challenge, and discuss! |
| 10:10 am – 11:00 am | Sample Size & Power Calculation Simplified Discover how sample size affects validity, confidence. |
| 11:00 am – 11:15 am | Q&A and Discussion |
| 11:15 am – 11:30 am | Morning Break |
| 11:30 am – 12: 00 pm | Cohort & Case-Control Studies: Seeing Cause and Effect Clearly Compare prospective and retrospective designs through practical examples. |
| 12:00 pm – 12:30 pm | Hands-on Group Activity Critically reading and appraising published cohort and case-control studies. |

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| 12:30 pm – 1:15 pm | Randomized Controlled Trials (RCTs): The Gold Standard of Primary Research Understand RCT anatomy, bias control, and guidelines in a researcher-friendly way. |
| 1:15 pm – 1:45 pm | Networking Lunch |
| 1:45 pm – 2:15 pm | Interactive Group Reading Analysing RCT papers. |
| 2:15 pm – 3:00 pm | Diagnostic Test Accuracy Studies: Evaluating Tests that Guide Clinical Decisions Interpret sensitivity, specificity, and predictive values with ease. |
| 3:00 pm – 3:30 pm | Group Activity: Reading and interpreting diagnostic accuracy studies. Q & A, Combined group activity: Reading diagnostic accuracy papers |
| 3:30 pm – 4:00 pm | Statistics Made Simple: p-values, Confidence Intervals, and Choosing the Right Test Bridge the gap between numbers and interpretation |
| 4:00 – 4:15 pm | Afternoon Tea Break |
| 4:15 – 4:45 pm | Literature Search Essentials for Thesis and Publication Practical strategies for searching, screening, and citing literature effectively. |
| 4:45 pm – 5:00 pm | Q&A — Ask the Experts |
| 5:00 pm – 5:30 pm | Open House & Networking Tea |
| Coordinators | Dr. Lalita Wadhwa, Ph no.: +91 9701123467 Dr. Viraraghavan V Ramaswamy, Ph no.: +91 8130402185 |

Faculty

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|------------------------------|---|
| Dr. Hari Balakrishnan B | Consultant Neonatologist, Surya Hospital, Mumbai. |
| Dr. Usha Devi R | Assistant Professor, Department of Neonatology, JIPMER, Puducherry. |
| Dr. Jogender Kumar | Associate Professor, Department of Neonatology, PGIMER, Chandigarh. |
| Dr. Vijay Kumar Krishnegowda | Associate Professor, Department of Neonatology, IMS and SUM Hospital, Bhubaneswar, Odisha. |
| Dr. Sanjana HS | Associate Professor, Department of Neonatology, AIIMS, Nagpur, Maharashtra. |
| Dr. Niranjana N | Consultant Neonatologist, Yashoda Hospitals, Secunderabad, Telangana. |
| Mr. Abdul Kareem PS | Health Sciences Librarian, Queen's University, Kingston, Canada. |
| Dr. Lalita Wadhwa | Professor and HOD, Pediatrics, GITAM Institute Of Medical Sciences and Research, Visakhapatnam, Andhra Pradesh. |
| Dr. Viraraghavan V Ramaswamy | Consultant Neonatologist, Ankura Hospital for Women and Children, Hyderabad, Telangana. |