



# WEBINAR

Virtual Training Programme on  
**Biostatistics and Research methodology**  
**Workshop – Webinar 2025**  
**17<sup>th</sup> – 18<sup>th</sup> May 2025 | 24<sup>th</sup> – 25<sup>th</sup> May 2025**

Organized by

**ChanRe Healthcare & Research Pvt. Ltd.**

In Association with

**ChanRe Rheumatology & Immunology Center & Research**  
**The Immunology & Arthritis Research & Education Trust**  
**Institutional Ethics Committee – CRICR**  
**ChanRe Diagnostic Laboratory**

## Course Director & Other Faculty

**Dr. Chandrashekara. S,** MD, DNB, DM  
Medical Director, CRICR

**Dr. Suresh. K. P,** M. Sc, Ph. D  
Principal Scientist, ICAR-NIVEDI

**Dr. Renuka. P,** DCP, DNB  
Director, & Pathologist, CDL

**Dr. Sridaran. D,** MD, D Bact  
Chairperson, IEC-CRICR

**Ms. Keerthana. G.S,** M. Sc in Agricultural Statistics  
Senior Research Fellow, ICAR-NIVEDI

**REGISTRATION FOR THE ENTIRE COURSE (ALL 4 DAYS)**

**Rs. 750/-**  
**(For Faculty, MD / MVSc / Ph. D & M. Sc Students)**  
***(Non Refundable)***

**[CLICK HERE TO REGISTER](#)**

## **INTRODUCTION ABOUT THE PROGRAMME**

Biostatistics as a discipline of research technology is useful in designing the study, collection and management of data, analysis and interpretation. In this information era, a large volume of data is generated through various research activities. Most of the researchers often face difficulty in handling data, in addition to the use of suitable statistical techniques to obtain the relevant information. Data management is the primary tool to be used before data is subjected to statistical analysis. ChanRe Rheumatology & Immunology Center & Research is organizing four days virtual online training programme on Research Methodology, Data Management and Biostatistics for the benefit of research workers in the field of Medicine, Veterinary and other Biological Sciences.

This training programme is designed to give the participants an overview of research methodology by expert lectures and discussions. In addition, a major portion of the programme involves explanations and hands on exercises in biostatistics using web-based statistical tools. These will be done through the live internet connected projection and inducing the participants to use the software for calculations and analysis, etc. over the Net with Wi-Fi / Data connection.

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ChanRe Rheumatology & Immunology Center & Research, established in 2002, apart from being a reputed institute for treatment of Rheumatological and Immunological diseases, is involved in Biomedical Basic Research and Clinical Trials with an established research department. ChanRe Healthcare & Research Pvt. Ltd. is its sister concern, which has now ventured into knowledge-based services in bio-medical research. The company has moved into ventures like publications, research guiding and other innovative services.

## TOPICS COVERED

**Day 1: Saturday, 17<sup>th</sup> May 2025**  
**(6.00 pm to 8.30 pm)**

*Introduction (6.00 to 6.10 pm)*

*Dr. Chandrashekara. S (6.10 to 6.45 pm)*

- ❖ **How to write a Research Question?**

*Dr. K. P. Suresh (6.45 to 7.30 pm)*

- ❖ **Statistical principles in Clinical studies**

- a) Introduction
- b) Background and purpose
- c) Scope and direction

*Dr. Sridaran. D (7.30 to 8.00 pm)*

- ❖ **Clinical Study Structuring**

*Dr. K. P. Suresh (8.00 to 8.30 pm)*

- ❖ **Considerations for overall clinical study development**

- a) Development plan
- b) Confirmatory study
- c) Exploratory study
- d) Population

**Day 2: Sunday, 18<sup>th</sup> May 2025**  
**(6.00 pm to 8.30 pm)**

*Dr. K. P. Suresh (6.00 to 6.30 pm)*

- ❖ **Considerations for overall clinical study development**

- e) Primary and Secondary variables
- f) Composite variables
- g) Multiple primary variables
- h) Surrogate variables
- i) Categorized variables

*Ms. Keerthana. G. S (6.30 to 7.00 pm)*

- ❖ **Design techniques to avoid bias**

- a) Blinding
- b) Randomization

*Dr. K. P. Suresh (7.00 to 7.45 pm)*

- ❖ **Types of comparisons**

- a) Studies to show superiority
- b) Studies to show Equivalence or non-Inferiority
- c) Studies to show Dose-response relationship
- d) Group Sequential designs

*Ms. Keerthana. G. S (7.45 to 8.30 pm)*

- ❖ **Study conduct considerations**

- a) Sample size estimation
- b) Study monitoring and interim analysis
- c) Changes in inclusion and exclusion criteria
- d) Accrual rates
- e) Sample size adjustment
- f) Interim analysis and early stopping

## TOPICS COVERED

**Day 3: Saturday, 24<sup>th</sup> May 2025**  
**(6.00 pm to 8.30 pm)**

*Dr. K. P. Suresh (6.00 to 6.45 pm)*

- ❖ **Data analysis considerations**
  - a) Pre specifications of data analysis
  - b) Analysis sets: Full analysis set, per protocol set and roles
  - c) Missing values and Outliers
  - d) Data transformations
  - e) Estimation, confidence interval and Hypothesis testing

*Dr. Chandrashekara. S (6.45 to 7.15 pm)*

- ❖ **Design techniques to avoid bias**

*Dr. K. P. Suresh (7.15 to 8.00 pm)*

- ❖ **Types of comparisons**
  - a) Adjustment of significance and confidence interval
  - b) Sub-setting of data and subgroup analysis
  - c) Interactions and covariates
  - d) Integrity of data and computer software validity

*Dr. Renuka. P (8.00 to 8.30 pm)*

- ❖ **Role of clinical laboratory in research**

**Day 4: Sunday, 25<sup>th</sup> May 2025**  
**(6.00 pm to 8.30 pm)**

*Dr. K. P. Suresh (6.00 to 6.45 pm)*

- ❖ **Evaluation of safety and tolerability**
  - a) Choice of variables and data collections
  - b) Set of subjects to be evaluated and presentation of data
  - c) Statistical evaluation
  - d) Clinical evaluation

*Dr. Sridaran. D (6.45 to 7.15 pm)*

- ❖ **Ethical issues in clinical research**

*Dr. Ms. Keerthana. G. S (7.15 to 8.00 pm)*

- ❖ **Reporting**
  - a) Evaluation and reporting
  - b) Summarize: Efficacy and Safety

*Dr. Chandrashekara. S (8.00 to 8.30 pm)*

- ❖ **How to write and evaluate a research report?**

### **ELIGIBILITY**

- Students (PG & above)
- Medical, Veterinary & Agricultural professionals
- Researchers
- Teachers of colleges & universities

### **PRE-PREPARATION FOR DELEGATES**

Preferably to have laptop / tab, etc. with data card for using internet statistical software online and working on problems using net software.

### **INSTRUCTIONS FOR THE DELEGATES**

- ❖ Registration through online
- ❖ Payment may be done through our website: [www.rheumatv.com](http://www.rheumatv.com)
- ❖ Link for online workshop will be sent 30 minutes before the commencement of the workshop on each day
- ❖ After the completion of the course, e-certificate will be issued

**For Registration / More information, Contact**

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