



# Workshop on Estimands and Sensitivity Analysis in Clinical Research

26<sup>th</sup> – 27<sup>th</sup> June, 2026



## WELCOME NOTE

Welcome to this workshop on Estimands and Sensitivity Analysis! In clinical trials, post-randomization events such as treatment discontinuation, intercurrent events, or the use of rescue medication can complicate the interpretation of trial results. The estimand framework, introduced through ICH E9(R1), provides a structured approach to planning, designing, conducting, analyzing, and interpreting clinical trials in the presence of such events. By clearly defining the question a trial intends to answer, the estimand framework ensures alignment between trial objectives, design, and analysis. This workshop brings together clinical researchers and statisticians to explore this framework in depth, with a focus on both conceptual understanding and practical application.

## AIM OF THE WORKSHOP

This workshop, led by experienced statisticians, is designed to bridge the gap between theory and practice in the application of the estimand framework. Through a combination of theoretical foundations, case studies, and real-world examples, participants will:

- Understand the core components of an estimand and the principles of ICH E9(R1)
- Learn how to define estimands that align trial objectives with study design, conduct, and analysis
- Develop practical strategies for identifying and handling intercurrent events in protocol development and statistical analysis plans
- Gain an introduction to sensitivity analyses and their role in assessing the robustness of trial results

By the end of this workshop, participants will be equipped with the tools and knowledge to apply the estimand framework confidently in their own research and practice.

## WHO SHOULD ATTEND

Clinicians, biostatisticians working in the field of clinical trials with an interest in learning about estimands and their implementation in study.

Registration Fee: Rs. 4000/-

Scan to Register



RRU Auditorium, 7<sup>th</sup> Floor, RRU Building, ACTREC - TMC

## PATRONS

**Dr. Sudeep Gupta**  
Director, TMC

**Dr. Pankaj Chaturvedi**  
Director, ACTREC-TMC

**Sadhana Kannan**  
OIC, Dept. of Clinical Biostatistics  
ACTREC

## FACULTY

**Kohinoor Dasgupta**  
Senior Director  
Biostatistics Novartis

**Angshuman Sarkar**  
Senior Director  
Head Biostatistics GSK

**Solomon Christopher**  
Senior Manager Biostatistics  
Bristol Myers Squibb

## CLINICAL PANEL

**Dr. Tejpal Gupta**  
MD, DNB  
Professor & Head, Radiation Oncology  
ACTREC, TMC

**Dr. Anant Ramaswamy**  
MD, DM  
Professor, Medical Oncology  
TMH, TMC

**Dr. Shivakumar Thiagarajan**  
MS, DNB  
Professor, Head and Neck Oncology  
TMH, TMC

**Dr. Nithya Gogtay**  
MD, DNB  
Professor, Clinical Pharmacology  
KEM Hospital, Mumbai

# Estimands and Sensitivity Analysis in Clinical Research

## PROGRAM SCHEDULE

DAY 1   26 <sup>th</sup> June, 2026		
TIME	TOPIC	SPEAKER
09:00 am – 09:15 am	Inauguration	
09:15 am – 09:30 am	Director's Message	Dr. Sudeep Gupta
09:30 am – 10:15 am	Motivation of Estimands	Sadhana Kannan Kohinoor Dasgupta
10:15 am – 11:00 am	Intercurrent Events: Addressing Gaps in Clinical Trials	Clinician Panel
11:00 am – 11:15 am	Tea Break	
11:15 am – 12:00 noon	General Estimand Framework	Solomon Christopher
12:00 noon – 12:45 pm	Different estimands corresponding to endpoints: continuous, binary, time to event	Angshuman Sarkar
12:15 pm – 01:30 pm	Sensitivity Analysis associated with different estimand strategy	Kohinoor Dasgupta / Solomon Christopher
01:30 pm – 02:30 pm	Lunch Break	
02:30 pm – 03:00 pm	Estimands in Oncology: Critical Appraisal	Faculty
03:00 pm – 04:30 pm	Hands On: Developing Estimand Framework	
04:30 pm	Tea Break	

DAY 2   27 <sup>th</sup> June, 2026		
TIME	TOPIC	SPEAKER
09:00 am – 09:30 am	Recap of Session 1, Q & A	
09:30 am – 10:30 am	Estimands under Causal Framework	Angshuman Sarkar
10:30 am – 10:45 am	Tea Break	
10:45 am – 12:15 pm	Estimating Estimands under Causal Framework	Angshuman Sarkar / Kohinoor Dasgupta / Solomon Christopher
12:15 pm – 01:00 pm	Addressing Missing Data	Kohinoor Dasgupta
01:00 pm – 01:30 am	Estimand in Observational Studies	Solomon Christopher
01:30 am – 02:30 am	Lunch Break	
02:30 am – 03:00 am	Critical Appraisal	Faculty
03:00 am – 04:30 am	Hands On: Analysis and Interpretation	

### Special Note:

- Limited accommodation for the participants are available and will be given as first come first served basis.
- Please contact The Department of Clinical Biostatistics, ACTREC on Email: [clinicalbiostatisticstmc@gmail.com](mailto:clinicalbiostatisticstmc@gmail.com) for further details.