



IQRAA
INTERNATIONAL HOSPITAL
AND RESEARCH CENTRE



Hands on Training in Clinical Research: Methodology and Data Analysis

11TH 12TH JUNE 2024

JDT CONFERENCE HALL,
VELLIMADUKUNNU, CALICUT

Organized by

IQRAA Centre for Research and Development (ICRD)

In association with

**Achuta Menon Centre for Health Science Studies,
Sree Chitra Tirunal Institute for Medical Sciences
and Technology, Trivandrum**

A two-day hands-on training and workshop on research methodology and data analysis for clinical researchers. The workshop will introduce a framework and guidelines for researchers to define research questions, hypotheses, and objectives clearly. It will enable researchers to identify the most appropriate research design, sampling technique, data collection, and analysis methods.

PROGRAM SCHEDULE

Date	Session	Time	Topic	
Day 1 (June 11 th , 2024)	Morning	8:30- 9:00	Registration	
		09:00-09:15	Inauguration	
		09:15-10:30	Introducing Research Paradigms and Formulation of Research Question	
		10:30-10:45	Tea Break	
		10:45-11:45	Literature Review to Identify Research Gaps – Session 1	
		11:45-12:00	Bio Break	
		12:00-12:50	Literature Review to Identify Research Gaps – Session 2 (Hands-On)	
			12:50-13:45	Lunch
	Afternoon		13:45-14:30	Study Designs – Session 1
			14:30-14:40	Bio-Break
			14:40-15:40	Study Designs – Session 2 (Hands-On)
		15:40-16:00	Tea	
		16:00-17:00	Introduction to Bibliographic Software for Manuscript Writing -Session 1	
Day 2 (June 12 th , 2024)	Morning	09:00-09:15	Recap of the previous day	
		09:15-10:15	Bibliographic Software for Manuscript Writing – Session 2 (Hands-On)	
		10:15-11:15	Sample Design & Data Collection	
		11:15-11:30	Tea	
		11:30-12:30	Bias, Confounders & Ethics in Healthcare Research	
			12:30-13:30	Lunch
	Afternoon		13:30-14:30	Data Analysis in Quantitative Research – Session 1
			14:30-14:40	Bio-Break
			14:40-15:40	Data Analysis in Quantitative Research – Session 2 (Hands-On)
			15:40-16:00	Tea
		16:00-17:00	Feedback & Valedictory	

RESOURCE FACULTY

The workshop will be led by the data science research team from SCTIMST, Trivandrum.

Prof. Biju Soman

Professor and Head, Achutha Menon Centre for Health Science Studies, SCTIMST, Trivandrum
Brief Bio



Dr. Biju Soman is the Professor and Head of Achutha Menon Centre for Health Science Studies, Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Trivandrum, Kerala. Dr. Soman had completed his MBBS in 1992, DPH in 1996 and M.D. (Community Medicine) in 1999 from University of Kerala and his MSc (Control of Infectious Diseases) in 2011 from University of London and DLSHTM in 2012 from the London School of Hygiene and Tropical Medicine (U.K.).

He has undergone advanced training in health informatics from Oslo University (Norway), Teaching Methodology from Boston School of Public Health (USA), Multilevel Modelling from Bielefeld University (Germany), and Advances in Geographic Information Systems (GIS) from National Remote Sensing Centre (Hyderabad). Dr. Soman teaches Public Health Technologies, Infectious Disease Epidemiology, and Database Management in Epidemiology modules at AMCHSS as part of the PhD and MPH curriculum. Some of his professional involvements at SCTIMST include Board of Studies (Health Sciences); Standing Academic Committee; and Research Advisory Committee. He also heads the Regional Technical Resource Centre (RTRC) of the Health Technology Assessment India (HTAI) at SCTIMST, Trivandrum.

His current research and teaching are around health data science, including public health informatics, geospatial analysis, telemedicine, health technology assessment, and infectious disease epidemiology. He endorses open data initiative, FOSS resources, and reproducible research initiatives.

Mr. Arun Jose

PhD Scholar (JRF Fellow), SCTIMST, Trivandrum
Brief Bio



Arun Jose is a researcher currently immersed in the pursuit of a Ph.D. in Health Sciences at the Achutha Menon Centre for Health Science Studies, SCTIMST, Trivandrum. With a profound academic foundation, he holds a Master of Science degree in Demography and Biostatistics from the University of Kerala. His current focus lies in the domain of projecting population dynamics at granular levels, employing diverse modeling techniques to unravel insights crucial for informed decision-making.

Dr. Rehna C Mohamed

PhD Scholar, SCTIMST, Trivandrum
Brief Bio



Rehna C Mohamed is a PhD Scholar at the Achutha Menon Centre for Health Science Studies, SCTIMST. She holds a Bachelor of Dental Surgery (BDS) degree from Government Dental College, Kozhikode, and a Master of Public Health (MPH) from Amrita Institute of Medical Sciences and Research Centre. Her current research focuses on understanding equity in general and in Health Technology Assessment (HTA) in particular. She has previously worked as Scientist- B, at the HTA Regional Resource Hub, NIRRCH, Mumbai, contributing to research and policy recommendations. Additionally, she has experience working with the Centre for Health Research and Innovation, a PATH affiliate, as a Latent TB Infection Coordinator, in Ernakulam district where she coordinated efforts in researching on latent TB infections.

INSTRUCTIONS

- Please bring a fully charged laptop. Power outlets may be limited, so it's crucial to start the workshop with a full battery.
- There will be scheduled breaks with refreshments provided.
- Wi-Fi access will be available. Login details will be provided at the venue.
- Technical support will be available for any software or hardware issues.