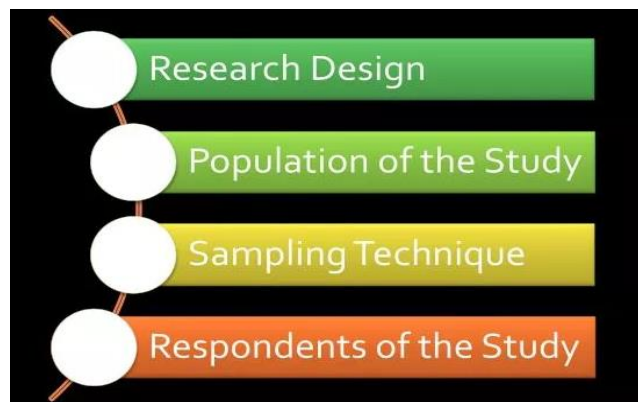




**Report of Series of Workshop on
'Research Methods & Biostatistics'
November 2023 – July 2024**

Theme: 'How to do a Good Dissertation & Publish'



THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY, CHENNAI - 600032

Department of Epidemiology

Department of Epidemiology of The Tamil Nadu Dr. M.G.R. Medical University conducted a series of 28 workshops on "Research Methods and Biostatistics: How to do a good dissertation & publish," from November 2023 to July 2024. These workshops are designed to equip post-graduate students and healthcare professionals with essential research skills, aiding in their dissertation and thesis work, and promoting evidence-based healthcare practices. The workshops cover various aspects of research methodologies, biostatistics, and data analysis, fostering a culture of rigorous healthcare research.

Healthcare research has undergone significant evolution, playing a critical role in enhancing global healthcare. It focuses on improving patient care, developing innovative treatments, and enhancing healthcare delivery. Technological advancements in healthcare over the past century have revolutionized patient outcome

Objectives

The core objectives of the workshop series were to empower researchers and post-graduate students from various medical, dental, and paramedical specialties with fundamental research skills. These workshops aimed to guide participants in conducting systematic research, resulting in high-quality dissertations, theses, and peer-reviewed publications

Structure & Schedule.

The three-day workshop was conducted in a blended format, combining lectures, group discussions, and hands-on training using open-source software tools.

The comprehensive schedule included the following:

Day 1

- Getting Started and pre-assessment
- Generating research ideas and research questions
- Searching and organizing literature with 'Zotero Basics'
- Writing a research protocol
- Describing and displaying data
- Questionnaire development

Day 2

- Critical appraisal of journal article
- Selecting an appropriate research design
- Diagnostic Study
- Methods of sampling and sample size estimation
- Ethics in healthcare research

Day 3

- When to do What test?
- Data management
- Writing dissertation
- Elaborating University guidelines

- How to get the research paper published?
- Discussion on each candidate's dissertation topic
- Post Assessment

Outcomes

The workshops offered participants comprehensive practical knowledge of healthcare research, encompassing biostatistical techniques and data analysis fundamentals. The interactive format promoted discussions, presentations, and evaluations of current scholarly research. Attendees acquired skills in organizing literature, utilizing statistical software tools, and addressing ethical issues in research. These sessions prepared healthcare professionals to comprehend, evaluate, and contribute to high-calibre research, ultimately benefiting society.

Participants

A total of 1902 postgraduate students in the 28 workshops from various medical, dental, Ph.D., and allied health courses, along with research mentors from affiliated institutions, attended these workshops.

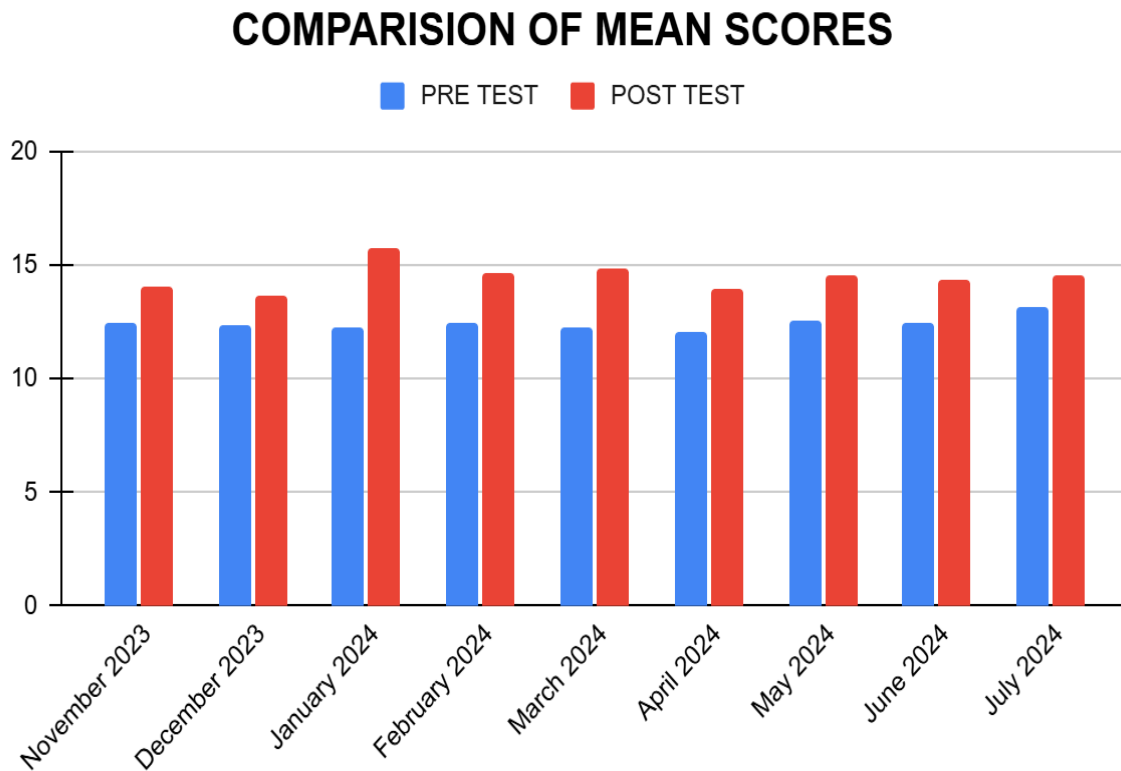
Resource Persons of the Workshop

Dr. G. Srinivas, Prof & HoD, DoE, TNMGRMU	Dr. Vijay Prasad, Medical and Public Health Consultant, Chennai
Dr. Jasmine S. Sundar, Sr.Asst. Prof, DoE, TNMGRMU	Dr. SaravanaKumar, Professor, MMC, Chennai
Dr. S.Valarmathi, RO(Stat), DoE,TNMGRMU , Chennai	Dr. Yuvaraj K, Head, Evidence Synthesis Unit, PROPUL Evidence
Dr. W.B.Sathiyasekaran,Dean, Research, Sri Balaji Medical college, Chennai	Dr. Manoj Muthukuru, Chief Scientific Officer, Managing Director, H2O Medicinal Systems - Integrale Pvt Ltd
Dr. Ganeshkumar P, Scientist,NIE, ICMR, Chennai	Dr. V. Saravana Kumar,Scientist,NIE, ICMR, Chennai
Dr. P.Manickam,Scientist, NIE, ICMR, chennai	Dr. M. Senthilkumar, NIE, ICMR
Dr. Subash Babu, NIH	Dr. Janani Surya,Scientist, NIE, ICMR, Chennai
Dr. Jayaprakash Muliyl,Professor, CMC, Vellore	Dr.E. Rajalakshmi, Research Consultant, TANCAM Chennai

Dr. Caroline Priya, Assistant Professor, MMC Chennai	Dr. Hema Priya, Public Health Consultant, Chennai
Dr.Rajinish Borkar ,Professor, ACS MC, Chennai	Dr. Monica dev, TNMGRMU
Dr. Anbarasi, Professor,Chettinad Med.College, Chennai	Dr. A. Vennila, Independent Researcher
Dr.A.Precilla Catherine, Professor, Thiruvannamalai Med.College	Dr. Shoba, Public Health Professional, Chennai.
Dr. Divya Muliyl,Assistant Prof, CMC, Vellore	Dr. Damodharan,Assistant Professor, MMC Chennai
Dr.A.Balaji, Arunai Medical College and Hospital, Thiruvannamalai	Dr. Aravinthram,Assistant Professor, MMC, Chennai
Dr. Ponnuraja, Scientist,NIRT, ICMR,chennai	Dr.Keerthana, Independent Researcher, chennai
Dr. Vetriselvan, NIE, ICMR, Chennai	Dr. Srinivasa Muthukaruppan Founder and CEO, Society of Public Health Experts, Chennai
Dr. Vasna Joshua, Consultant (SRO) ,NIS, Chennai	Dr. B.Krishna Prasanth,Asso.Prof,Sree Balaji Medical College, Chromepet, Chennai
Dr. Shyam S, Meenakshi Ammal Dental College, Chennai	Dr. Paridayal, Assistant Prof, MCC, Chennai
Dr. Aishwarya Vidyasagan, Mastery Ltd., ,Chennai.	Dr. Aruna B Patil., Asso.Prof., ESIC & PGIMSR, Chennai
Dr. Dhanajeyan, Assistant Prof, ESIC & PGIMSR,Chennai	Dr. Porchelvan, Professor, Panimalar MCRI, Chennai
Dr. Sriram, Scientist, NIRT,ICMR	Dr. Padmavathi, Assistant Professor, ESIC & PGIMSR,Chennai
Dr Kani Mozhi, Independent Researcher, Chennai	

Course Evaluation

The course was evaluated through online surveys that participants filled out both prior to the workshop's commencement and upon its conclusion.



PARTICIPANT FEEDBACK

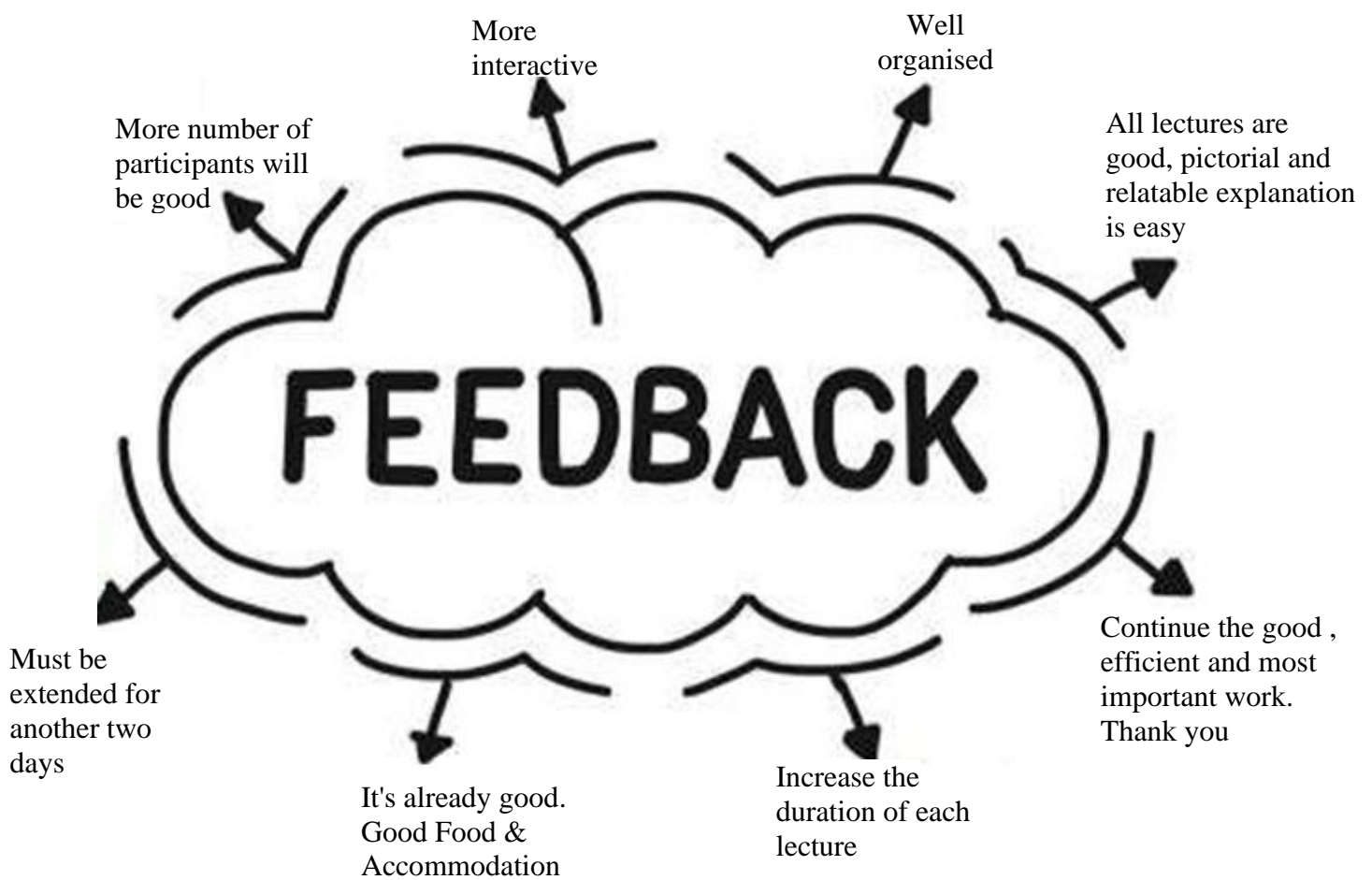
At the end of each day during the workshop, all participants were asked to evaluate the relevance and effectiveness of the course content as well as how the training had met their objectives and expectations. The key evaluation criteria were:

- Overall course content
- The expertise of the resource personnel
- Learning environment

The feedback forms were shared through mail and responders were kept anonymous. About 86% of the 1635 workshop participants took part in these evaluations and assessed through a scale of 1 = *Very Poor* to 5 = *Excellent*.

Out of the 1635 respondents 1483 (90%) contributed to the overall median score of evaluations on the sessions were 4.

Overall, the workshop was well received; the faculty of the departments was pleased to observe the active participation of the attendees. However, we need to wait to see the research work quality which could be objectively assessed through quality dissertations and peer-reviewed publications in the near future.



We extend our gratitude to the Honorable Vice-Chancellor and The Registrar of The Tamil Nadu Dr. MGR Medical University for their continuous support in organizing these workshops.

“Finish your dissertation, do not let it finish you”- Joanne Broder Sumerson