



**Report of Series of Workshop on
'Research Methods & Biostatistics'**

February 2023 – October 2023

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



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

Department of Epidemiology

A series of eleven online and three workshops on "Research Methods and Biostatistics: How to do a good dissertation & publish," organized by The Tamil Nadu Dr. M.G.R. Medical University between February 2023 – October 2023. These workshops aimed to equip post-graduate students and healthcare professionals with essential research skills, facilitating dissertation and thesis work, and fostering evidence-based healthcare practices. The workshops covered various aspects of research methodologies, biostatistics, and data analysis, fostering a culture of rigorous healthcare research.

Healthcare research has evolved significantly, playing a pivotal role in enhancing global healthcare. It focuses on improving patient care, developing innovative treatments, and enhancing healthcare delivery. Advances in healthcare technologies over the past century have transformed patient outcomes

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

- Registration and pre-assessment
- Generating research ideas and research questions
- Searching and organizing literature with 'Zotero Basics'
- Writing a research protocol
- Describing and displaying data
- Selecting an appropriate research design

Day 2

- Recapitulation of activities from Day1
- Questionnaire development
- When to do What test?
- Diagnostic Study
- Methods of sampling and sample size estimation
- Ethics in healthcare research

Day 3

- Recapitulation of activities from Day2
- Critical appraisal of journal article
- Data collection and data management
- Writing dissertation

- Elaborating University guidelines
- How to get the research paper published?
- Discussion on each candidate's dissertation topic

Outcomes

The workshops provided participants with in-depth practical knowledge of healthcare research, including bio statistical methods and data analysis principles. The interactive format encouraged discussions, presentations, and reviews of ongoing scholarly research. Participants gained insights into literature organization, statistical software tools, and ethical considerations in research. The workshops equipped healthcare professionals to understand, assess, and contribute to high-quality research, ultimately benefiting society

Participants

A total of 3437 postgraduate students from various medical, dental, Ph.D., and allied health courses, along with research mentors from affiliated institutions, attended these workshops. Among them 2614 (76%) attended online whereas 823 (24%) attended offline workshop. Their enthusiastic participation and commitment to research signify the growing importance of evidence-based healthcare practices in the field.

	WORKSHOP DATES	NO.OF PARTICIPANT
1	8th to 10th February 2023	227
2	22nd - 24th February 2023	309
3	8th to 10th March 2023	259
4	29th to 31st March 2023	254
5	19th to 21st April 2023	258
6	10th to 12th May 2023	192
7	24th to 26th May 2023	320
8	7th to 9th June 2023	214
9	21st to 23rd June 2023	216
10	12th to 14th July 2023	184
11	26th to 28th July 2023	181
12	23rd to 25th August 2023	286
13	13th to 15th September 2023	277
14	4th to 6th October 2023	260
	GRAND TOTAL	3437

The mean(sd) age of participants was 29.22(5.27) years with a range being 23 years to 67 years.

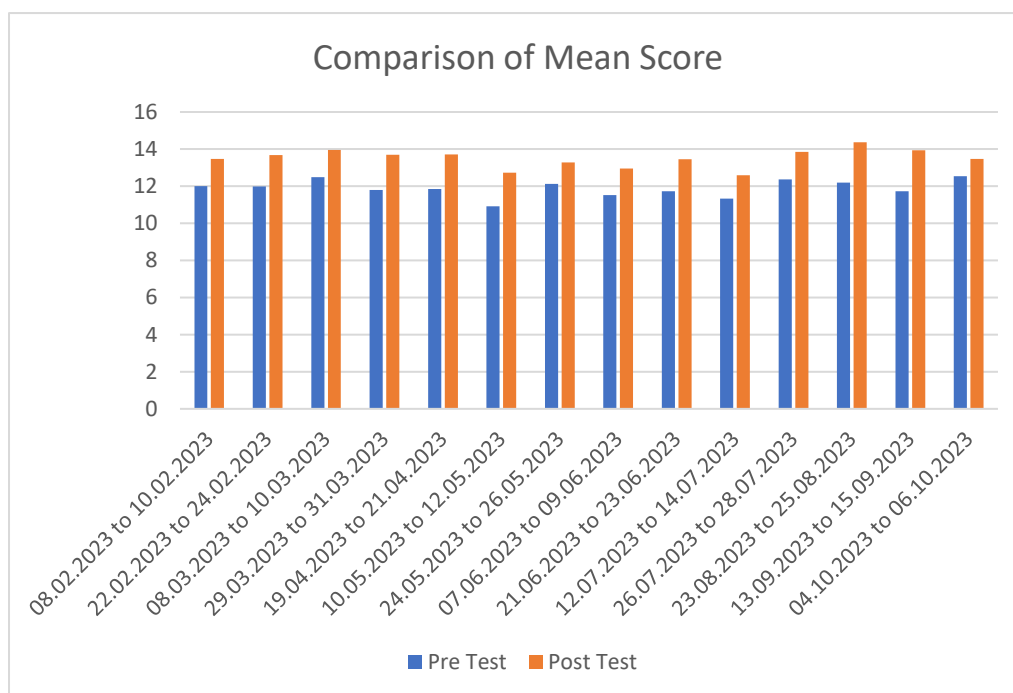
Resource Persons of the Workshop

Resource	Designation	Resource	Designation
D.G.Srinivas	Prof and Head,DoE,TNMGRMU, Chennai	Dr. C.Ponnuraja	Scientist E & HoD,Dept of Statistics,NIRT,ICMR,Chennai
Dr. B.W.C Sathiyasekaran	Dean, Research,Sree Balaji Medical College and Hospital,Chennai	Dr.Jasmine S Sundar	Sr.Assistant Professor, DoE,TNMGRMU,Chennai
Dr. K. Ilavenil	Reader and Head of Anatomy,Sri Ramakrishna Dental College,Coimbatore	Dr.S. Kalpana,	Research Officer,DoE,TNMGRMU,Chennai
Dr. Kamala	Asso. Prof Anatomy,TSRMMCH and RC,Trichy	Dr.P.Parameshwari	Associate professor,Department of Community Medicine,Chengalpattu Medical College
Dr. L. Jayaseelan,	Prof, MBR University of Medicine and Health science,,Dubai,,UAE	Dr.Yuvaraj k,	Assistant Professor,ESIC &PGIMSR,Chennai
Dr. Manoj Muthukuru	Chief Scientific Officer and Managing Director,H2O Medicinal Systems Integrals Private Limited,Chennai	DrParameswari.S	Epidemiologist,,Controller of Examination,DRMGRERI,Maduravoyal, Chennai
Dr. Newtonraj. A	Scientist E,NIRT,ICMR,Chennai	Dr. Parthasarathi,	Professor,Govt. K.A.P.V.,Trichy
Dr. P. Ganesh Kumar	Scientist D,NIE, ICMR,Chennai	Dr.Devika,	Scientist C,NIE, ICMR,Chennai
Dr Sitanshu Sekhar Kar,	Additional Professor of PSM,Department of PSM, JISPH Building,,JIPMER ,Puducherry Puducherry 605006 India	Dr. Shailendra Chaudhary	Associate Professor,,S N Medical College,Agra,Uttar Pradesh
Dr. P. Saravanakumar	Asso. Prof. Dept. of Com.Med,Govt. Kilpauk Medical College,Chennai	Dr. K. Boopathi	Sr.Tech Officer,NIE, ICMR,Chennai
Dr G.Dhanajayan	Senior Resident,ESIC &PGIMSR,Chennai	Dr. Anil J Purty	Prof. Dept. Com. Med,PIMS,Pondicherry
Dr Saramma Mini Jacob,	Research Director, R & D Wing,,Sree Balaji Medical College,,Chromepet, Chennai	Dr.Ranjeetha Kumari	Additional Professor,Department of Community and Family Medicine,AIIMS,Rishikesh
Dr. P.Manickam	Scientist E,National Institute of Epidemiology,ICMR	Dr. Bhola Nath,	Professor and HoD,Department of Community Medicine,Raebareli
Dr. Parthasarathi	Sr. Assistant Professor, Com. Med, Govt. K.A.P.V,Trichy	Dr. Rajeev Aravindakshan	Additional Professor,Department of Community Medicine,AIIMS, Mangalagiri

Resource	Designation	Resource	Designation
Dr.P.Parameswari	Associate Professor,Department of Community Medicine,Chengalpet Medical College,Chenglepet	Dr.P. Getrude Banumathi	Associate Professor,Department of Community Medicine, Chengalpet Medical College,Chenglepet
Dr. Ranjana singh,	Associate Professor,,Indian Institute of Public Health,,Delhi Public Health Foundation of India, Delhi	Dr. Rock Britto	Asso. Prof.,,Dhanalakshmi Srinivasan Medical College and Hospital, Perambalur,Trichy
Dr. Richard Kirubakaran	Research Scientist, Cochrane,CMC,Vellore	Dr. Sasidharan S, MDS, (PhD)	National Oral Health Program,Ministry Of Health & Family welfare,
Dr. Rizwan S A	Scientist D,NIE, ICMR,Chennai	Dr.Sudharshini S	Asst. Prof. , Community Medicine,Madras Medical College,Chennai
Dr. Shyam S	Asst.Prof.,,Meenakshi Ammal Dental College,Chennai	Mr.Sudip Mahapatra,	Bikash Society,,Bankura,,Kolkata
Dr. Sriram S	Scientist D, ,NIRT,,ICMR, Chennai	Dr. Arun Murugan	Prof & Head, Dept. of Com. Med , Omanadurar medical college, Chennai
Dr. Subha Anirudhan	Professor, Department of Conservative Dentistry & Endodontics,Sri Ramakrishna Dental College & Hospital,Coimbatore	Dr.A.Precilla Catherine	Associate Professor, Dept. of Physiology,Govt.Stanley Medical CollegeChennai
Dr. Suthanthira Kannan,	Assistant Professor,ESIC &PGIMSR,Chennai	Dr. Krishna Prasanth	Assistant Professor, Sree Balaji medical college, chrompet
Dr. T.S. Guga Priya	Addl. Prof. Dept of Anatomy,AIIMS,Nagpur	Dr.E.Rajalakshmi	Consultant, NIE, ICMR,Chennai
Dr. Vijaya Prasad,	Asst. Prof. , Community Medicine,ESIC Medical College and PGIMSR,Chennai	Dr. Vigneswari	Research Associate,Sri Ramachandra Medical College And Research Institute,Porur, Chennai
Dr. S. Valarmathi,	Research Officer(statistics),DoE,TN MGRMU,Chennai	Dr,Porselvan,	Panimalar MCH and RI, 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

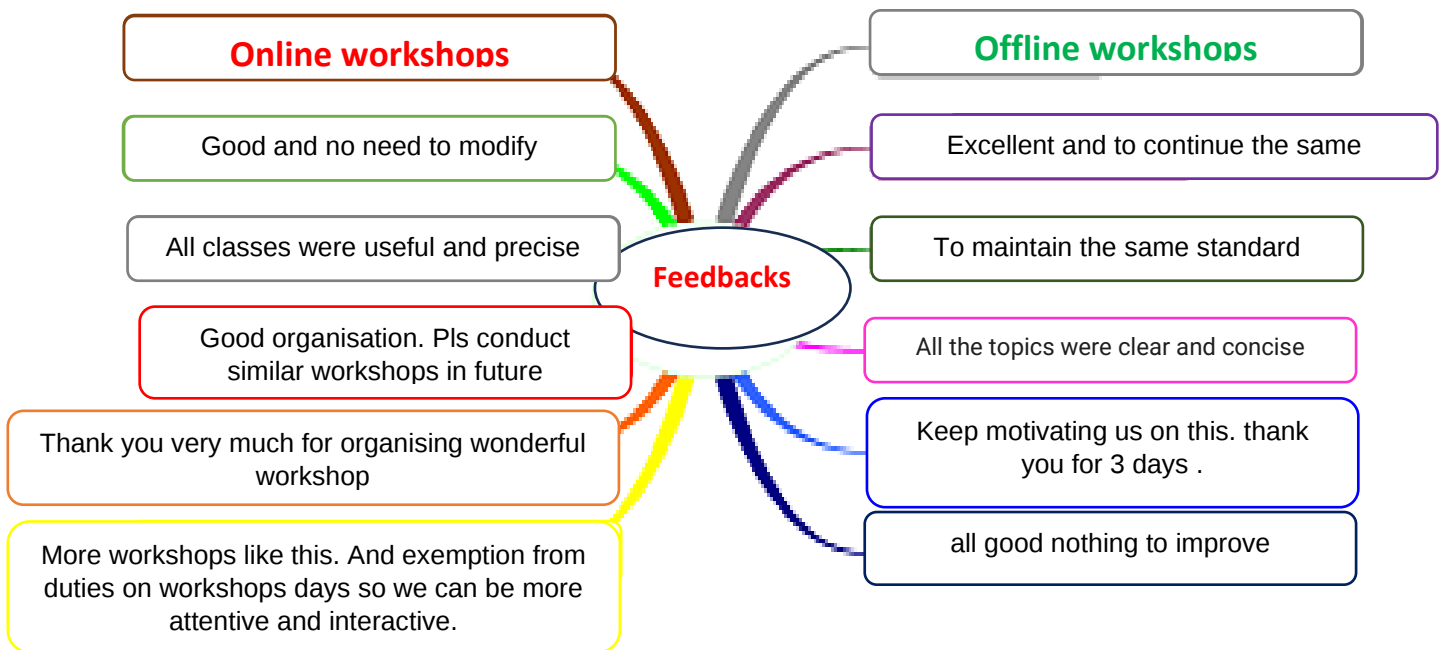
At the end of each day during the workshop, all participants were asked to evaluate the relevance and effectiveness of the course content as well as how the training had met their objectives and expectations. The key evaluation criteria were:

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

The feedback forms were shared through mail and responders were kept anonymous. About 83% of the 3437 workshop participants, took part in these evaluations and assessed through a scale of 1 = *Very Poor* to 5 = *Excellent*.

The overall median score of these evaluations was 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.




Radhika Aravindan
 to me ▾
 Sessions are excellent
 ...


Jawahar Mahadevan
 to me ▾
 All Classes are good and informative. It will be better if you leave us little earlier. Thank you.
 ...


VinothKumar Devan
 to me ▾
 Good basics explained well.
 ...


Vanisree Ravi
 to me ▾
 Great work....much needed guidance regarding thesisthank u so much for enlighten the dry topics again with clear cut precise way...thank u for the wonderful work ...mam
 3 ago) ☆ ←



D.kaliyaperumal Perumal

to me ▾

Got complete idea regarding thesis.and how to publish .



ARUL MALAR

to me ▾

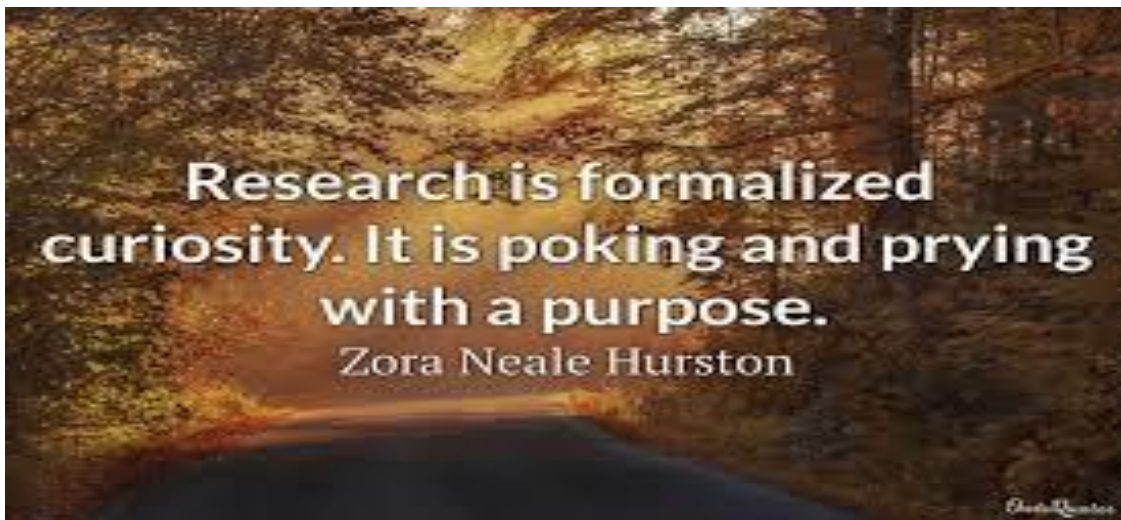
Respected sir

Thank you for all the speakers who all took great effort to conduct the session in an excellent manner





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