



Department of Epidemiology



**Report of the 'Workshop on Research Methodology and Biostatistics:
How to do a good Dissertation & Publish?'**

**for first year MD/MS/MDS Post Graduates & PhD scholars/guides
conducted to Institutions affiliated to our University**

June 2018 - September 2018



Organised by

**Department Of Epidemiology
The Tamil Nadu Dr.M.G.R. Medical University,
Guindy, Chennai 600032**

THE TAMILNADU DR M.G.R. MEDICAL UNIVERSITY, DEPARTMENT OF EPIDEMIOLOGY



Purpose of Workshop

This 3-day workshop (WS) on 'RESEARCH METHODOLOGY&BIOSTATISTICS (RMBS): How to do a good Dissertation & Publish?', conducted by Department of Epidemiology (DoE), ' is intended for 1st year MCh/ DM/MD/MS/MDS/ other candidates who would move forward from the general ideas about their dissertation topic through the development of a solid structure, research strategy and clarity to draft chapters. The workshop is thus designed with an objective to build the capacity of participants on research methods and to facilitate them on manuscript writing for publications.

Course contents

How to choose Research Topics? , Formulation of Research Questions, Literature Review & Organization using Mendeley/Zotero, Choosing an appropriate Study design, Sampling and Estimation of Sample Size , Basic Biostatistics, What test to do & when?, Tests of Significance, P value & 95% Confidence Interval, Writing Protocol, Writing different chapters in dissertation, University Guidelines on Dissertation, Ethics in research, Critical Appraisal of Journal Articles & Communicating research (How to publish?)

Participants of the workshop

A total of 1714 Post Graduate medical, dental Students (MD/MS/MDS), Ph.D guides and Ph.D students from various medical institutions participated. So far, seven batches were conducted from June to August 2018.



Dates of Workshop

No of workshops	Date	No of Participants
1	27 th -29 th June 2018	132
3	11 th -13 th July 2018	182
4	18 th – 20 th July 2018	284
5	23 rd - 25 th July 2018	278
6	1 st – 3 rd August 2018	312
7	29 th – 31 st August 2018	526
	Total	1714

List of Colleges Participated

1. Madras Medical College
2. Stanley Medical College

3. Kilpauk Medical college
4. Chengalpat Medical College
5. Dhanalakshmi Srinivasan Medical College
6. KAP Viswanathan Govt Medical College
7. Coimbatore Medical College
8. Theni Medical college
9. Govt Mohan Kumaramanglam Medical College
10. Govt Thoothukudi Medical College
11. Govt Dharmapuri Medical College
12. Thanjavur Medical College
13. Tirunelveli Medical College
14. Kanyakumari Medical College
15. Sree Moogambiga Institute of Medical Sciences
16. Chennai Medical College
17. Madurai Medical College
18. Christian Medical College
19. Aravindh Eye Hospital and Research Centre
20. National Institute of Siddha
21. C.L Baid Metha College of Pharmacy
22. Kilpauk Medical College
23. Appollo College of Nursing
24. Sri Sairam Siddha Medical College
25. Omayal Achi college of Nursing
26. Joseph Eye Hospital
27. Karpagam college of Medical Sciences
28. Karpaga vinayaga Insitute of Medical Sciences
29. PSG Insitute of Medical Sciences
30. Ragas Dental college
31. CSI Detal College
32. National Insitute of Siddha
33. KSR Dental College
34. Govt Dental College

Participant preparation

Prior to coming to the workshop, the participants were expected to share with DoE (epid@tnmgrmu.ac.in) their 'Probable research topic' in discussion with their guide. This would also facilitate the workshop organisers to provide appropriate examples & consolidate the candidate's research work during the workshop.

Pre test/Post test

Before starting the scientific sessions on Day-1, each participant's existing knowledge on research methods was assessed by pre-test and post-test was conducted at the end of workshop.

Evaluation

Each day a Likert type questionnaire was given to students to assess the content, teaching method, etc. Also provision was provided to participants to comments on each session and their expectations on improving each session.

Learning Methods

The learning method used was lectures for technical inputs, recap presentation by participants on each day's proceedings, small group discussions on development of Research question, choosing the right design, right statistical test, demo on conduct of literature search & organizing literature.



Faculty for the Workshop

From The TN Dr MGR Medical University (TNMGRMU)

Dr.S.Geethalakshmi, MD., Ph.D, Vice Chancellor,TNMGRMU

Dr.T.Balasubramanian, Registrar, TNMGRMU

Dr.G.Srinivas, M.D., Prof, DoE, TNMGRMU

Dr.Mini Jacob, MD, Prof, DEM, TNMGRMU

Dr.Parameshwari,MBBS.,M.Sc (Epid) , Associate Professor, DOE, TNMGRMU

Dr.Joseph Maria Adaikalam, MD(S).,M.Sc(Epid) Sr. Asst Prof , TNMGRMU

Dr.S.Kalpana, Ph.D., MBA., Research Officer, TNMGRMU

Dr.S.Valarmathi, M.Phil., Ph.D, Research Officer, TNMGRMU



External Resource Persons

Dr. Ganesh Kumar, MD., Scientist C, NIE

Dr.P.Manickam, BSMS, MSc, PhD , Scientist E, NIE

Dr.Saravana Kumar,MD, Asst Prof, SMC

Dr.Vijay Prasad, Asst Prof,ESIC and Hospital, Chennai

Dr.Parameshware, MD, Asst Prof, Chengalpet Medical College

Dr.Revathy, MD, Asst Prof., Chengalpet Medical College

Dr.Priya Senthil Kumar, MD,Asso.Prof, SMC

Dr.Sudarshini MD, Asst Professor, MMC, Chennai

Dr.Balaji, Asst Prof,MMC

Dr.Bella, NIRT

Dr. Sriram, Scientist C, NIRT

Dr.Ponnuraja, Scientist E, NIRT

Dr.Richard Kirubakaran, Research Scientist, CMC, Vellore

Dr.Kirthika Datta, Meenaksh Ammal Dental College

Dr.Rama, Cancer Institute

Dr. Mohammed Junaid, MDS,MFDS,, Asst Prof, Meenakshi Ammal Dental College

Dr.Aravindhan, Ph.D Asst Prof,PG IBMS



Program Schedule of the workshop

DAY – 1	
09.30 - 10.15 AM	Registration and Pre-test
10.15 – 11.00 AM	Getting started
11.15 - 12.15 PM	Writing a Research Protocol
12.15 - 01.15 PM	Research Designs
02.00 - 03.00 PM	Basic Statistics in Health Research
03.00 - 04.00 PM	RCT
04.15 – 05.00 PM	Group Work
DAY – 2	
10.00 – 10.15 AM	Recap of Day 1
10.15 – 11.15 PM	Diagnostic Studies
11.15 - 12.15 PM	Methods of Data Collection & Questionnaire Development
12.15 - 01.15 PM	Estimation of Sample Size
02.00 - 03.00 PM	How to get your Research article published?
03.00 - 04.00 PM	What test to do & When
04.15 – 05.00 PM	Group Work
DAY – 3	
10.00 – 10.15 AM	Recap of Day 2
10.15 – 11.00 PM	Literature search & Zotero/Mendeley
11.15 - 12.15 PM	Critical Appraisal of Journal Article

12.15 - 01.15 PM	Data Management
02.00 - 03.00 PM	Writing dissertation (& University guidelines)
03.00 - 04.00 PM	Ethics in Health Research
04.00 PM	Post-test





Outcomes

The success of this WS was to create a Medical community capable of judging and conducting 'quality Research'. The participants were engaged actively throughout the course. A strength as well as challenge of this course was the diversity of candidates from mixture of specialties participated

Over all feed back/comment/suggestion /recommendations by the Participants was positive & they felt:

✓ *It was really useful- supports them to conduct research systematically & publish*