

**REPORT OF FIRST TRAINING OF TRAINERS
WORKSHOP ON 'RESEARCH METHODOLOGY &
BIostatISTICS - HOW TO DO A GOOD DISSERTATION &
PUBLISH?'**

Organised by

DEPARTMENT OF EPIDEMIOLOGY

THE TAMIL NADU DR.M.G.R.MEDICAL UNIVERSITY

07.06.2017 to 09.06.2017



Chennai, The Tamil Nadu Dr. M. G. R. Medical University, 7th June 2017

Hon'ble **Vice-Chancellor Prof. Dr. S.Geethalakshmi, M.D., Ph.D.**, inaugurated the first Training of Trainers Workshop on '**RESEARCH METHODOLOGY & BIostatISTICS - HOW TO DO A GOOD DISSERTATION & PUBLISH?**' at the DEPARTMENT OF EPIDEMIOLOGY for faculty of the Medical Colleges affiliated to the University.

The first workshop was attended by faculty of Medical colleges affiliated to this University in Chennai, Vellore & Chengalpattu institutions.

Speaking at the workshop, the Hon'ble Vice-Chancellor Prof. Dr.GEETHALAKSHMI, emphasized a need to conduct systematic Research in Health & also disseminate the generated evidence through periodic publications, by Medical fraternity. She said that this initiative of Research workshop, would improve quality of Research in Medical Education & promised all support to such workshops. The Registrar of University Dr. T.Balasubramaniam delivered a session on simplifying statistics in health sciences. Dr.G.Srinivas, Professor of Epidemiology explained the format of the training & also thanked his staff of the department Dr.Jasmine S Sundar, Dr.S.Kalpana, Ms.S.Valarmathi, Mr.P.Ponnusamy, Mr.D.Rajkumar & M.Sc postgraduates for their hard work to conduct the workshop.

Purpose of Workshop

This 3-day ToT Workshop (WS) on 'RESEARCH METHODOLOGY & BIOSTATISTICS (RMBS): How to do a good Dissertation & Publish?' was intended to for faculty who would facilitate conduct of this workshop in their institutes. The purpose of the workshop was to make faculty understand on how to take/guide first year MD/MS/DM/MCh students from a point at which they have general ideas about their dissertation topic through the development of a solid structure, research strategy and clarity in drafting chapters. The workshop was designed with an objective to build the capacity of participants on research methods and on preparing them to guide first year MD/MS/DM/MCh students for dissertation & facilitate them on manuscript writing for publications

Course contents

Sources of Research Topics, Formulation of Research Question, Literature Review & Organisation using Mendley, Study designs, Diagnostic test, Sampling and estimation of Sample Size, Basic biostatistics, Test of significance, P value, 95% confidence interval, Steps in writing protocol & chapters in Dissertation, Ethics in Research, Communicating Research and Demo of Statistical software.

Learning Methods

The learning method used were lectures for technical inputs, presentation by participants on each days proceedings, small group sessions between the participants to formulate research Question, selecting appropriate research design and an overview discussion on implementing this workshop in their institution.

Participants: 19 faculty from 11 institutions participated in the workshop

ANNEXURES

Annex 1 Workshop Agenda

Annex 2 List of documents distributed electronically in CD– **07to09June Folder**
(Modules & Power point of all sessions, Evaluation forms & Workshop Agenda)

Annex 3 Participant list

Annex 1 Workshop Agenda

Date: 07.06.2017 (Day-1)		
Venue : Lecture Hall, Dept of Epidemiology		
Time	Agenda	Facilitator
9.00 - 9.30	Registration	
9.30 - 10.00	Inauguration	
10.00 - 10.15	Pretest	
10.15 - 11-15 am	Percentages, Probability, P value, Pie charts & Performing calculations	Dr.T. Balasubramanian, M.S., Registrar, TNMMU
11.15-11.30 am	Tea Time	
11.30- 12.00 pm	Why do we need Research in Health ? Where do Research topics come from?	Dr.G.Srinivas M.D Professor, DoE
12.00 - 12.30 pm	How to formulate 'Research Objectives'?	Dr.Jasmine S Sundar, MBBS., M.Sc(Epid), Assistant Professor, DoE
12.30 - 1.15 pm	How to Measure disease ?	Dr.S.Parameshware MBBS., M.Sc (Epid) Associate Professor
1.15 - 2.00 pm	Lunch Time	
2.00 - 3.00 pm	Literature Review - getting started with Mendeley	Mr. Thirumugam BOT., MBA., M.H.A Senior Epidemiologist Global Data Research Center
3.00 - 4.00 pm	Basics Statistics in Health Research (Types of Data, Displaying & Summarising Data)	Ms.S.Valarmathi, M.Sc., M.Phil., (Ph.D) Research Officer, DoE
4.00 --4.30 pm	Elements of a Research Protocol	Dr.S.Kalpna Ph.D Research Officer, DoE
4.30 - 5.30 pm	Small Group Discussion- 'Defining and refining research objectives' of each participants	All facilitators with participants

Day -2 08.06.2017		
10.00- 10.10 am	Recap of day1	Participants
10.10 – 11.00 am	Selecting an appropriate Research Design	Dr.G.Srinivas M.D
11.00 - 11.15 am	Tea Time	
11.15 -12-00 pm	Diagnostic Test	Dr.Joseph Maria Adaikalam M.D(S), M.Sc(Epid),
12.00- 1.15 pm	Estimating Sample Size and Sampling Techniques (Choosing your Research participants)	Ms.S.Valarmathi, M.Sc., M.Phil., (Ph.D)
1.15 - 2.00 pm	Lunch Time	
2.00 - 3.00 pm	Methods of data collection (Questionnaire development)	Dr. P.Ganesh Kumar M.D Scientist C, NIE
3.00 - 4.00 pm	What test to do when ?	Ms.S.Valarmathi, M.Sc., M.Phil., (Ph.D)
4.00 - 4.30 pm	Small group Discussion (Selecting Research Design for some research objectives)	All facilitators with participants
4.30 – 5.30 pm	Overview of SPSS (& Demonstration)	Ms.S.Valarmathi, M.Sc., M.Phil., (Ph.D)
Day -3 09.06.2017		
10.00- 10.10 am	Recap of day 2	Participants
10.10-11-15 am	Data Management with Epi data and Excel	Dr.Richard Kirubakaran, Ph.D Biostatistician, South Asian Cochrane Centre, Christian Medical College
11.15-11.30 am	Tea Time	
11.30 - 12.15pm	Interpreting the validity of research results (Bias, Confounding)	Dr.P.Manickam,B.S.M.S.,M.Sc (Epid)., P.hD. Scientist D, NIE
12.15 - 1.15 pm	Writing dissertation (& University guidelines)	Dr.S.Kalpana Ph.D
1.15 - 2.00 pm	Lunch time	
2.00 - 3.00 pm	How to get Research article published?	Dr.C.Aravindhnan, Ph.D Asst Professor, Dept of Genetics Dr.ALM. P.G.IBMS
3.00 - 3.30 pm	Ethics in Research	Dr.Mini Jacob M.D., Professor Dept of Experimental Medicine
3.30 – 4.00 pm	Small Group Discussion- Facilitation of Research workshops in participant's Institute	All Participants
4.30 - 5.30 pm	Post-test, Course Evaluation, Valedictory	

Annex 2:

Documents distributed electronically in CD–**Folder named: 07to09June**

1. Modules of all sessions
2. Power point of all sessions
3. Evaluation forms &
4. Workshop Agenda

Annex 3 : Participant list

S.No	Faculty Name	Institution	Speciality
1.	Dr. Susila. K	Stanley Medical College	Com. Medicine
2.	Dr. Kumar Caroline Priya	Stanley Medical College	Com. Medicine
3.	Dr.Usha Kothandaraman	ESIC Medical College & PGIMSR	Anatomy
4.	Dr. Sowmya Sampath	ESIC Medical College & PGIMSR	Pediatrics
5.	Dr.P.Getrude Banumathi	Chengalpattu Medical College	Com.Medicine
6.	Dr.Parameswari	Chengalpattu Medical College	Com. Medicine
7.	Dr. T.Aruna	Govt. Kilpauk Medical College	Pharmacology
8.	Dr.Senthil kumar	Govt. Kilpauk Medical College	Com. Medicine
9.	Dr. Sathish	Christian Medical College	Paediatrics
10.	Dr. Vignesh	Christian Medical College	General Medicine
11.	Dr. Srikanth.R	Sankar Nethralaya MRC	Ophthalmology
12.	Dr.Joy Patricia Pushparani	Madras Medical College	Com. Medicine
13.	Dr. Gowri	Madras Medical College	Physiology
14.	Dr. Sudhakar. R	Govt. Vellore Medical College	Anesthesia
15.	Dr. Balaji	Govt. Vellore Medical College	Pathology
16.	Dr. Karthikeyan	Karpaga Vinayaga Institute of Medical Science & Research Institute	Com. Medicine
17.	Dr. Rama Ranganathan	Cancer Institute WIA	Biostatistician
18.	Dr.Hamsavardhini	Dept of Transfusion Medicine,TNMGRMU	IM&BT
19.	Dr.Raj Bharath	Dept of Transfusion Medicine,TNMGRMU	IM&BT