



Department of Epidemiology



Summary Report of Series of workshops
***‘ Research Methodology and Biostatistics: How to do good
Dissertation and Publish?’***
***for the first year MD/MS/M.Ch/DM Post Graduates conducted
across Tamil Nadu for affiliated Medical Colleges of this University:***
August 2017- February 2018



Dept of Epidemiology,
The Tamil Nadu Dr. M.G.R. Medical University,
Chennai

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



Purpose of Workshop

This 3-day ToT Workshop (WS) on 'RESEARCH METHODOLOGY&BIOSTATISTICS (RMBS): How to do a good Dissertation & Publish?' is intended for 1st year Mch/ DM/MD/MS 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

Sources of 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 ?, Test of Significance, P value & 95% Confidence Interval, Writing Protocol, Writing different chapters in dissertation, Ethics in research & Communicating research.

Participant preparation

Prior to coming to the workshop, the participants are 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.

Expected Outcome

The success of this WS will depend to a large extent on the creation of a Medical community capable of judging and conducting 'quality Research'. To do so we will require the participants to engage actively throughout the course also plan its adoption in their institute. A strength as well a challenge of this course will be the diversity of candidates from mixture of specialties would be participate.

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 sessions.

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, conducting literature search & organizing literature.

Recap

From second day, before starting the scientific session, two students did recap of the previous day sessions, by which faculty can understand what they learnt and understood the sessions covered on previous day.

Process of conduct of series of workshop

1. Training of Trainers (ToT)

In this regard, two Training of Trainers (ToT) workshop was conducted at Chennai and Madurai. From each government college two nodal person and one from private medical Colleges participated the ToT workshop. The nodal person was co-ordinate with the University faculty to conduct the workshop at their institution. The workshop was planned as per the below schedule.

Venue	No of participants	Date
The Tamil Nadu Dr.M.G.R.Medical University, Chennai	19	07.06.2017 to 09.06.2017
Aravind Eye Hospital, Madurai	28	21.06.2017 to 23.06.2017

2. Conduct of workshop to Affiliated Institutions with support of above Trainees, DME, Dean & Vice principals.

Post Graduate Students (MD/MS/DM/MCh) from the following medical institutions were participated this workshop.

1. Madras Medical College
2. Stanley Medical College
3. Kilpauk Medical College
4. Chengalpet Medical College
5. ESIC Medical College
6. Karpaga Vinaya Institute of Medical Sciences and Research Centre
7. Dhanalakshmi Srinivasan Medical College
8. KAP Viswanathan Govt Medical College
9. Tanjavur Medical College
10. Chennai Medical College
11. Madurai Medical College
12. Aravind Eye Hospital
13. Theni Medical College
14. Govt Mohan Kumaramangalam Medical College
15. Tirunelveli Medical College
16. Coimbatore Medical College
17. PSG Institute of Medical Sciences
18. Karpagam College of Medical Sciences
19. Kanyakumari Govt Medical College
20. Sree Moogambika Institute of Medical Sciences

INAGURATION

The Hon'ble Vice-Chancellor Prof. Dr.S.Geethalakshmi inaugurated the workshops of **“Research Methodology and Biostatistics: How to do good Dissertation and publish?”** for first year MD/MS Post Graduates at Tirunelveli Medical College, Madurai Medical College and Coimbatore Medical college. In her inaugural speech, Hon'ble Vice-Chancellor emphasized the need to conduct systematic Research in Health & disseminate the generated evidence through periodic publications. She said that it was for the first time such workshops are held away from Chennai & was optimistic that this initiative would improve quality of Research in Medical Sciences. She informed that University has made this Research workshop as mandatory to all first year Post graduates from Academic year 2017 - 2018. She assured all support to similar workshops will be conducted to all affiliated Medical colleges. She also addressed the participants attending series of workshops held in Chennai for colleges in and around Chennai.



The Schedule, venue & number of participants who participated from each medical college is given in the table:

No	Name of College	Date	Venue	No of Participants
1	Tirunelveli medical college	22-24 th Aug 2017	Tirunelveli medical college	100
2	Madurai medical college Aravind Eye Hospital	31 st Aug -2 nd Sep 2017	Madurai medical college	86+11
3	Sree Mookambika medical college Kanyakumari medical college Tirunelveli Medical College	13-15 th Sep2017	Sree Mookambika medical college	56+16+23
4	Coimbatore medical college	26-28 th Sep 2017	Coimbatore medical college	94
5	Madurai medical college Aravind Eye Hospital Theni Medical College	4-6 th Oct 2017	Madurai medical college	75+1+12
5	PSG Institute of Medical Sciences Coimbatore Medical College Karpagam medical college	11-13 th Oct 2017	PSG Institute of Medical Sciences	48 +9+5
6	Thanjavur medical college and Chennai medical college	6-8 th Nov 2017	Thanjavur	72+8
7	KAP Viswanathan Govt medical college Joseph Eye Hospital and Dhanalakshmi medical college	8-10 th Nov 2017	KAPVGMC	97+4+8

8	The TN Dr.M.G.R.Medical University, Madras Medical College	14.11.2017- 16.11.2017	The TN Dr.M.G.R.Medical University- senate hall	5+112
9	Stanley Medical College	14.11.2017- 16.11.2017	Lecture hall, DoE	65
10	Madras Medical College Stanley Medical College	21.11.2017- 23.11.2017	The TN Dr.M.G.R.Medical University	96+69
11	Kilpauk Medical college	21.11.2017- 23.11.2017	The TN Dr.M.G.R.Medical University	120
12	Kilpauk Medical college Cancer Institute ESI Stanley Medical College Karpaga vinayaga Institute of Medical Sciences Chengalpet Medical College	04.12.2017- 06.0-12.2017	The TN Dr.M.G.R.Medical University	47+14+5 +2+21+6 9
13	CMC, Vellore Govt Vellore Medical College	09.01.2018- 11.01.2018	CMC	137+23
14	Govt Mohan Kumaramangalam Medical College, Salem	23.01.2018- 25.01.2018	Govt Mohan Kumaramangalam Medical College, Salem	68
15	Missed candidates of all affiliated colleges	14.02.2018 - 16.02.2018	The TN Dr.M.G.R.Medical University	195
About 1770 plus MD/MS/DM/Mch 1st Year Postgraduate candidates				

Feed back from students about the workshop:

Positive feed back

- ✓ They appreciated the Vice-Chancellor Dr.S.Geethalakshmi Madam for taking this initiative (conduct of the workshop as mandatory, conduct in the first year itself and also away from Chennai)
- ✓ It was really useful- supports them to conduct more systematic research & publish
- ✓ Each Scientific sessions was excellent and understandable
- ✓ They very well understood , how to choose topic, how to develop research question, the components of research protocol including bio-statistics, how to cite reference using Zotero and Mendelay software etc.

Pre and Post test Score (Max; 20)

Average Pre test score is : 8.76

Average Post test score is :18.55

Suggestions/ feed back

- ❖ Duration may be increased as five days
- ❖ In few places , they felt their faculty & Ethical committee members should also be sensitized on Research methods
- ❖ They were not able to concentrate full day workshop due to night duty
- ❖ 6 month time frame to submit the title through online may be extended since many students are to develop the protocol & obtain ethical committee clearance



Honorable Vice-chancellor Inaugurated the Training of Trainers workshop on “ Research Methodology and Biostatistics-: How to do good dissertation and publish? conducted at Aravind Eye Hospital, Madurai.



**ToT Workshop: Research Methodology And Biostatistics: How To Do A Good Dissertation & Publish?
The Tamil Nadu Dr. M.G.R. Medical University (TNMMU), Department Of Epidemiology (DoE)**

Honorable Vice-chancellor released a workshop manual on : 'Research Methodology and Biostatistics' at Tirunelveli Medical college, Tirunelveli. The first copy was received by Dean, TVMC.



Dr.G.Srinivas HOD,Department of Epidemiology, giving lecture on Getting started: Research Topic and Research Question in the ToT Workshop on RMBS: How to do good Dissertation and Publish for the faculty





Participants and faculty of the Workshop on “ Research Methodology and Biostatistics:- How to do good dissertation and publish? conducted at Madurai Medical College,Madurai



Participants and faculty of the Workshop on “ Research Methodology and Biostatistics:- How to do good dissertation and publish? conducted at Sree Mookambika Institute of Medical sciences , Kulasekharam on 13th - 15th September 2017





Ethics in Medicine class was covered by External faculty from Delhi at PSG, Coimbatore



Honorable Vice-chancellor Inaugurated the Workshop on “RMBS: How to do good dissertation and publish?” at TNMGRMU for PG’s from MMC and SMC



Honorable Vice-Chancellor Madam Inaugurating the Workshop on “ Research Methodology and Biostatistics-: How to do good dissertation and publish? conducted at Coimbatore Medical College on 26th - 28th September 2017



**Participants presented their concept paper in the end of the day of the Workshop on
“ Research Methodology and Biostatistics-: How to do good dissertation and publish?
conducted at Thanjavur Medical College, Thanjavur**



Participants present the recap of previous day scientific sessions of the Workshop on “ Research Methodology and Biostatistics-: How to do good dissertation and publish? conducted at Thanjavur Medical College, Thanjavur



Certificate with 30 credit points were issued to the participants attending the workshop on “RMBS: How to do good dissertation and publish? by University at KAP Viswanathan Govt Medical College, Trichy





Participants attending the workshop on “RMBS: How to do good dissertation and publish? by University at CMC, Vellore









ACKNOWLEDGMENTS

With immense pleasure, we express our profound thanks to our Vice Chancellor Prof. Dr.S.Geethalakshmi, M.D.,PhD., for her constant encouragement and support in all our departmental activities & guiding to conduct series of this workshop.

We acknowledge the contributions of all the faculty of medical colleges across Tamil Nadu who have contributed to the success of this workshop. Also, we would like to thank our Registrar Dr. Balasubramanian M.S., D.L.O., for his guidance in all our activities. We hope that these workshops would promote 'Quality Research' by our postgraduates and will contribute for more Research publications.

We are indebted to Almighty who continues to guide us in all our efforts.

**Staff of Department of Epidemiology,
The Tamil Nadu Dr. M.G.R. Medical University**