



## **RESEARCH METHODOLOGY WORKSHOP**

**CONDUCTED BY DEPARTMENT OF COMMUNITY MEDICINE,**

**TAGORE MEDICAL COLLEGE AND HOSPITAL, CHENNAI**

**DATE: 20<sup>th</sup> NOVEMBER 2020**

**VENUE: LECTURE HALL 2, COLLEGE BUILDING, TMCH**

## **RESEARCH METHODOLOGY**

Research is a process of systematic inquiry that entails collection of data, documentation of critical information, analysis and interpretation of that data/information, in accordance with suitable methodologies set by specific professional fields and academic disciplines. In the field of medicine, research plays an important role in discovering new treatments and make sure that we use existing treatments in the best possible way. Over the last three decades the importance of research in all fields of medicine has been increasingly recognized. The nature of research ranges from basic and clinical to field based and applied research and can be preclinical, clinical and Para-clinical or diagnostic, preventive and therapeutic in application. All universities granting postgraduate medical degree as well as the Medical council of India consider research or thesis work as an obligatory requirement. There is also an implicit expectation of their ability for appraisal and utilization of new scientific knowledge to improve clinical practice and scholarly contribution to development and research in the chosen field of medicine. Hence training in research methodology becomes essential for all the post graduates to encourage them take up research seriously. In this regard, the Dept of Community Medicine, TMCH conducted 'Research Methodology Workshop' for all Postgraduates of various departments of Tagore Medical College and Hospital on 20<sup>th</sup> November 2020.

## PROGRAM SCHEDULE

SESSION	TIMINGS	TOPIC	FACULTY IN CHARGE	GROUP ACTIVITIES
I	9.00 – 9.45 AM	INTRODUCTION AND STEPS IN MEDICAL RESEARCH	DR. A BALAJI (PROFESSOR & HOD)	DR A BALAJI DR. SREE T
II	9.45 - 10.30 AM	RESEARCH STUDY DESIGNS	DR. C. SIVAGURUNATHAN (ASSOCIATE PROFESSOR)	SUCHCHARITHA DR. C SIVAGURUNATHAN DR. A RADHAKRISHNAN
III	10.30 - 10.45 AM	TEA BREAK		DR. RC KARTHICK DR. A VIKRAM DR. M EZHILVANAN
IV	10.45 – 11.30 AM	SAMPLING METHODS AND SAMPLE SIZE CALCULATION	DR. A BALAJI (PROFESSOR & HOD)  DR. M. EZHILVANAN (STATISTICIAN)	
V	11.30 – 12.30PM	APPLICATION OF STATISTICS IN MEDICAL RESEARCH	DR. A BALAJI (PROFESSOR & HOD)  DR. M. EZHILVANAN (STATISTICIAN)	
VI	12.30 – 1.30PM	LUNCH		
VII	1.30 – 3.00PM	PROPOSAL WRITING (GROUP ACTIVITY)		

## **Organizing Committee Members**

**Organizing Chairman: Dr A. Balaji, Prof & HOD, TMCH**

### **Members**

**DR. SREE T SUCHCHARITHA**

**DR. C SIVAGURUNATHAN**

**DR. A RADHAKRISHNAN**

**DR. RC KARTHICK**

**DR. A VIKRAM**

**DR. M EZHILVANAN**



**Group Photo of Resource persons and Workshop participants.**

## **On the day....**

The event began at 9.00 AM. Dr.A.Balaji, Professor and HOD, department of community medicine, TMCH, gave the welcome address and formally introduced the resource persons to the participants. After the self introduction of the participants, pre-test was conducted. After pre-test the first session on 'Introduction and steps in medical research' was taken by Dr. A. Balaji. He highlighted the importance of research in the postgraduate curriculum and explained the various steps involved in conducting bio-medical research. The various modes of literature search was explained in detail. This was followed by the session on 'Research study designs' by Dr. C. Sivagurunathan, Associate Professor, Community Medicine. He discussed the types of quantitative and qualitative study designs with appropriate examples. The Following tea break, Dr. N. Gunasekaran, Dean, Tagore Medical College and Hospital addressed the participants. He emphasized on the need for conducting research and the importance of learning and updating ourselves with the latest guidelines and treatment protocols. This was followed by session on 'Sampling Methods and Sample size calculation' by Dr. A. Balaji, Professor and HOD, department of community medicine and DR. M. Ezhilvanan, Statistician. They discussed the various methods of probability and non-probability sampling and explained the sample size estimation techniques for different study designs. Following this session, the application of statistics in medical research was discussed by Dr. A. Balaji and DR. M. Ezhilvanan. They highlighted the importance of choosing the appropriate statistical test for the purpose of data analysis. The post lunch session was a group activity in which the participants were divided into four groups and were asked to prepare a thesis proposal. This was facilitated by the resource persons and the participants were asked to present the proposals developed by them and necessary corrections were done by the resource persons. All the sessions were followed by group activity where the participants were actively involved in problem solving. The workshop ended with post test and group photo of the resource persons and participants. The vote of thanks was delivered by Dr. C. Sivagurunathan.



**Pictures during the session**

(clock-wise from left)

1. Dr. A. Balaji, Professor & HOD, Community Medicine, discussing the introduction to research
- 2 & 3.. Dr. N. Gunasekaran, Dean, TMCH, addressing the workshop participants
4. Dr. C. Sivagurunathan, Associate Professor, Community Medicine during his session on Research study designs

## **Feedback from participants and resource persons**

“Excellent sessions. They provided very valuable information about research and thesis proposal writing.”

**Dr. Vinoth Raja, PG, Community Medicine**

“Dr. A. Balaji was a fabulous teacher with a great sense of humor and profound knowledge on the field of research. Thank you to the Dept of Community Medicine for conducting such a workshop. It was of great help.”

**Dr. Preethi, PG, Obstetrics and Gynaecology**

““Dr. A. Balaji is very knowledgeable and passionate about the subject. I hope the participants really enjoyed the course. I would highly recommend such workshops to be conducted for students regularly every year””

**Dr. A Radhakrishnan, Assistant Professor, Community Medicine**

“Thank you for the great research methodology workshop”

**Dr. Elakkiya, PG, General Surgery**

“The workshop was very nice. Topics were very clear and in simple terms. Methodology of teaching and problem solving made every single person involve in what is going on. Thank you for organizing such a wonderful session”

**Dr. Kabilan, PG, General Surgery**

“Dr. Balaji’s lecture was engaging and interesting. Some exercises that were given was very useful”

**Anonymous**