



TRIGGERING BIOSTATISTICS FOR RESEARCH EVIDENCE – STATISTICAL COMPUTING USING STATISTICAL SOFTWARES.

December 2023 to June 2024

Organized by:

Department of Epidemiology

The Tamil Nadu Dr.M.G.R. Medical University

A series of one-day online workshops has been organised by The Tamil Nadu Dr. M.G.R. Medical University to enhance the well-being and the skill sets of the participants.

The online workshop titled “Triggering Biostatistics for Research Evidence – Statistical Computing Using Statistical softwares” was organized to ameliorate the essential skills of the participants’ in biostatistics and statistical computing using the Statistical softwares. The workshop aimed to enhance participants’ proficiency in statistical analysis and data management for research purposes using statistical softwares. Participants from various locations took part in the workshop and the sessions were conducted by virtual mode from 10.30am to 05.00pm.

The workshop began with a clearly organized schedule, starting with a pre-test using a QR code related to Triggering Biostatistics for Research Evidence – Statistical Computing Using statistical softwares. This was followed by a series of lectures and interactive sessions aimed at promoting active engagement and enhancing participants’ understanding. As the lectures concluded, participants were given a QR code for a post-test and feedback, allowing them to evaluate their

understanding and contribute valuable feedback. Approximately 295 participants benefited from the workshops.

The key topics covered are:

1. Types of data and descriptive statistics
2. Introduction to SPSS
3. Analytical Statistics - Parametric and non-parametric tests using SPSS
4. Data Management using Epi Info
5. Maps: Visual Representation of Data by Location using Epi Info
6. Descriptive Statistics using Epi Info
7. Inferential statistics using Epi Info

The workshop featured distinguished experts from prestigious institutions including **All India Institute of Medical Sciences (Jharkand, Andhra Pradesh), National Council of Applied Economic Research (Delhi), NIRT, Indian Council of Medical Research (Chennai), Meenakshi Ammal Dental College (Chennai) and Aarupadai Veedu Medical College and Hospital (Puducherry).**

PARTICIPANTS

S.NO	WORKSHOP DATES	NO. OF PARTICIPANTS	MODE OF DELIVERY
1	15th December 2023	96	In Person
2	9 th February 2024	100	ONLINE
3	23 rd February 2024	57	
4	22 nd March 2024	80	
5	21 st June 2024	58	
Total		391	

RESOURCE PERSONS OF THE WORKSHOP

Resource	Designation
Dr. G.srinivas	Prof and Head,DoE,TNMGRMU,Chennai
Dr.S.Valarmathi	Research Officer(Statistics), DoE,TNMGRMU, Chennai
Dr. Shyam S	Professor, MADC, Chennai
Dr. Richard Kirubakaran	Research Scientist, Cochrane, CMC, Vellore
Dr. Vijaya Prasad G	Medical and Public Health Consultant, Chennai
Dr. C.Ponnuraja,	Scientist F & HoD, Dept of Statistics, NIRT,ICMR,Chennai
Ms. Sevvanthi K	Lecturer cum Biostatistician, Aarupadai Veedu Medical College and Hospital, Puducherry
Dr. L. Paridayal	Assistant Professor, Madras Christian College, Tambaram, Chennai
Dr Amirthammal	Programmer (Project & Data Management, Analysis), National Data Innovation center, National Council of Applied Economic Research
Dr G.Kalaiselvan	Professor, Department of Community and Family Medicine, AIIMS, Managalagiri
Dr.V.Vinayagamoorthy,	Assistant Professor, Community and Family Medicine, AIIMS, Deoghar, Jharkand.

Comparison scores of Pre-Test & Post-Test:

S.NO	WORKSHOP DATES	PRE TEST			POST TEST		
		Mean	Median	Range	Mean	Median	Range
1	15th December 2023	8.76	9	3 - 11	10.1	10	4- 13
2	9 th February 2024	9.35	10	3 - 14	9.89	11	3 - 14
3	23 rd February 2024	7.37	7	2 - 12	8.19	8	4 - 12
4	22 nd March 2024	4.51	5	1-8	4.60	5	1 - 10
5	21 st June 2024	8.8	9	3 -15	11.11	11	6 - 15

PARTICIPANT FEEDBACK

At the end of 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 QR code and responders were kept anonymous. About 80% of the 391 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.

FEEDBACKS

