



Report on the
Innovative Skill based Training on
“Triggering Biostatistics for Research Evidence”

15th December 2023

A one day Innovative Skill based Training on “Triggering Biostatistics for Research Evidence” Organized by Department of Epidemiology, The Tamil Nadu Dr. M.G.R. Medical University with the constant encouragement of our Honorable Vice-Chancellor Prof. Dr. K. Narayanasamy, M.D., D.M.(Gastro).

The Skill based Training started with the Inauguration on Friday 15th December 2023 at 10.15 am in the Senate Hall of the University Presided by our Honorable Vice-Chancellor Prof. Dr. K. Narayanasamy, M.D., D.M.(Gastro). The welcome address was given by The Registrar.

In the presidential address to participants, Honorable Vice-Chancellor Prof. Dr. K. Narayanasamy accentuated the critical role of biostatistics in health research and evidence-based practice. Emphasizing the quote "Absence of evidence is not evidence of absence," he highlighted the significance of statistical evidence, particularly in the context of the medical field. Biostatistics, as the application of statistics in biological and health sciences, plays a crucial role in providing numerical precision to scientific results, facilitating a more comprehensive interpretation of health research. The address acknowledged historical contributions by Sir Ronald Fisher and stressed the increasing demand for trained biostatisticians. Despite this demand, there is a recognized gap in the recognition and incorporation of biostatistics in medical education. The speech also emphasized the importance



of health statistics, especially in achieving Millennium Development Goals, and highlighted the relevance of biostatistics in the era of Artificial Intelligence and Machine Learning. Looking to the future, biostatistics is expected to play a pivotal role in assessing vaccine effectiveness, monitoring public health policies, conducting real-time data analysis, and contributing to the scientific response to pandemics and public health emergencies.

The speakers

- Dr. Ponnuraja, Scientist F, NIRT – ICMR, Chennai
- Dr. Richard Klrubakaran, Research Consultant, Christian Medical College
- Dr. Shyam, Prof – Public Health Dentistry, Meenakshi Ammal Dental College
- Dr. Srinivasa Muthukaruppan Ravi, Public Health Professional, Chennai

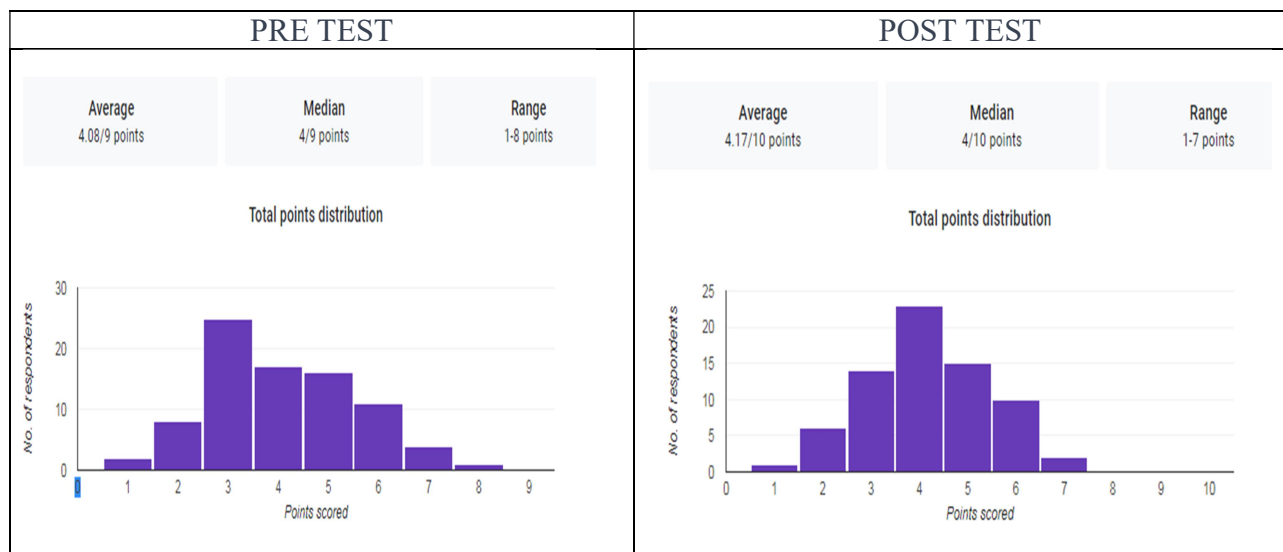
of the day were felicitated.

The expression of gratitude during the inauguration's vote of thanks was presented by the Professor and Head of the Department of Epidemiology. He extended his appreciation to the Vice-Chancellor, recalling key highlights from the presidential address and acknowledging the invaluable support provided by the Vice-Chancellor to the department. Additionally, he expressed thanks to the Registrar, Heads of Departments, Resource Person, participants, and the dedicated team within his department.

The following topics were covered in the skill based training,

- Steps in conducting a research project
- Designs in Health Research & Statistics
- Data Collection & Data Management.
- Epi data - open source software
- When to consult a Biostatistician? Why?
- Commonly used statistical tests in Health Research
- Interpreting Data: 'P', 'p', 'NS' & CI – a Statistical ritual?
- Statistical Software for Health Professionals

The pre test and the post test was given to the Participants as part of course evaluation.



The workshop garnered positive feedback overall, with the participants expressing satisfaction at the enthusiastic involvement of the Resource person. The participants requested to conduct in future

- Basic Statistics with hands on training in SPSS for each of the session
- Biostatistics for Physiotherapists
- Introductory Training in R
- In-depth training in statistical tool.



"Without Data you're just
another person with an
opinion"

W. EDWARDS DEMING