

JSS Academy of Higher Education & Research

JSS Medical College, Mysuru

Department of Community Medicine and Centre for Clinical Research Excellence

Report of VIth Workshop on Basics of Research Methodology and statistical analysis

using SPSS held on 5th to 7th November 2019

Workshop on Basics of Research Methodology and Statistical Analysis using SPSS was conducted by the Department of Community Medicine, JSS Medical College, Mysuru on **5th to 7th November 2019** from 9.00 am to 5.00 pm at Medical Education Unit, JSS Medical College, Mysuru. Participants were from various disciplines of Health and Allied Sciences (Medical, Dental, Pharmacy and Ph D Scholars of various subjects).

Day one of the workshop started with Welcome by Dr Praveen Kulkarni, Associate Professor, Department of Community Medicine, JSS Medical College, Mysuru and an ice breaking session with self-introduction of the participants. He also delivered a session on “Introduction to research Methodology”. This was followed by deliberation on the topic, selection of research topic by Dr Shwethashree M, Assistant Professor, Dept. of Community Medicine. Dr Nayanabai Shabadi Assistant Professor, Dept. of Community Medicine described on how to search and evaluate the existing literature. Dr Praveen Kulkarni deliberated on how to frame research question and objectives. Dr Smitha MC, Assistant Professor, Dept. of Community Medicine took a session on how to identify appropriate study design in epidemiological research. Dr Vinaya Gowda and Dr Riya from Centre for clinical research excellence, JSS Hospital described the methodology of clinical trials and practical aspects of conducting clinical trails in CCRE. Post lunch session began with introduction to descriptive statistics by Mr Arun Gopi, lecturer in biostatistics, JSS Medical College. This was followed by an elaborate session on basics of ethics in medical research by Dr Pratibha Pereira, Head, CDSA, CCRE, JSS Hospital, Mysuru

Day 2 started with brief recap of day 1 sessions by workshop participants Dr Sindhu and Dr Priyaka, This was followed by a session on sampling technique by Dr Anil S Bilimale, Assistant Professor of Community Medicine and Chief MPH Coordinator. This session was followed by a group activity on identifying study designs. Following this, Dr Smitha M C elaborated on basics of hypothesis testing. Mr Arun Gopi deliberated on “Sample Size

estimation” with suitable examples and scenarios. Post lunch session began with deliberation on “Inferential Statistics” by Dr Praveen Kulkarni. There were three group activities and hands on activity on interdiction to SPSS software and descriptive statistical analysis conducted on day two by all the Facilitators and Post Graduates of Community Medicine Department to make the topics better understandable to the participants.

Day three began with recap of day 2 by the workshop participants. This was followed by an elaborate session on correlation and regression by Mr Arun Gopi. Dr Sunil Kumar D, Associate Professor, Dept of Community Medicine delivered session on validity of screening test and ROC curve. All participants were then trained in Hands on SPSS by all the facilitators and Post graduate students of Community Medicine Department. Post Lunch session was continued by Dr Nayanabai Shabadi and Dr Smitha MC on “Introduction to Qualitative research” and “From Research to Publication” respectively. Dr Praveen Kulkarni took as session on designing and validating a questionnaire. This was followed by a session on the newer features of SPSS version 27 by a team from IBM SPSS, Bengalure.

This was followed by the valedictory which was chaired by Dr M R Narayana Murthy, Professor and Head, Dept. of Community Medicine and Dr Prakash B, Professor, Department of Community Medicine, JSS Medical College. Brief summary of the workshop was presented by Dr Praveen Kulkarni. Feedback was obtained by the participants and Dr Prakash addressed the delegates and advised them to use the techniques of statistical analysis on the regular basis. This was followed by distribution of Certificates to the delegates and resource persons.