

**REPORT ON**  
**VIRTUAL WORKSHOP ON RESEARCH**  
**METHODOLOGY & BIostatISTICS FOR**  
**UNDERGRADUATE MEDICAL STUDENT- 12-07-2024**



**ORGANIZED BY**  
**DEPARTMENT OF EPIDEMIOLOGY**  
**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

A series of one-day online workshops has been organized for third-year MBBS Part-I Undergraduate Medical students affiliated with The Tamil Nadu Dr. M.G.R. Medical University. The workshop was conducted on July 12, 2024.

On July 12, 2024, students from Govt Mohan Kumaramangalam Medical College and Karpaga Vinayaga Medical College, Chennai participated in the workshop. The sessions were conducted in the lecture halls of their respective college premises, utilizing LCD screens for PowerPoint presentations. Each institution appointed a nodal coordinator from the community medicine department to oversee the workshop.

The workshop followed a well-organized agenda, starting off with a pre-test on Research Methodology and Biostatistics, accessible via QR code. This was followed by a series of informative technical sessions, complemented by interactive elements designed to foster engagement and enhance understanding. Upon conclusion of the lectures, participants were provided with a QR code to complete a post-test and offer feedbacks, allowing them to assess their knowledge gain and provide valuable insights. A total of 210 undergraduate medical students benefited from this enriching experience.

**THE KEY TOPICS COVERED ARE:**

1. Research Ideas /Questions & Objectives
2. Searching and Organizing Literature
3. Research Designs
4. Basic Biostatistics in Health Research
5. Research protocol

The workshop featured distinguished experts from prestigious institutions including **All India Institute of Medical Sciences (Nagpur)**, **Medical & Public Health Consultant, Madras Christian College**, **School of Public Health, PGIMER (Chandigarh)** and **Karpagam Faculty of Medical Science & Research (Coimbatore)**.

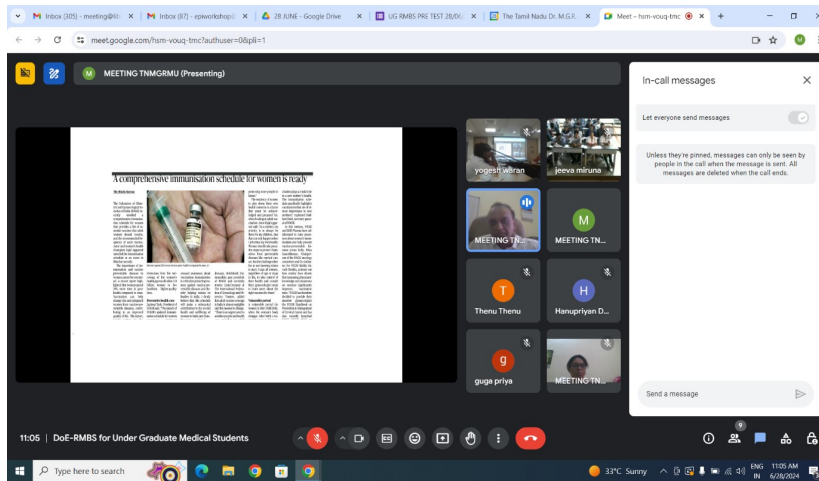
**Government Mohan Kumaramangalam Medical College,Salem.**



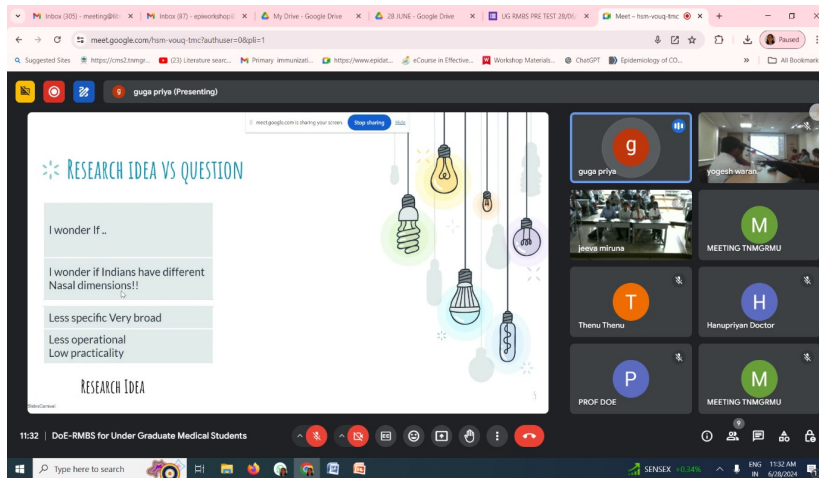
**Karpaga Vinayaga Medical College, Maduranthakam.**



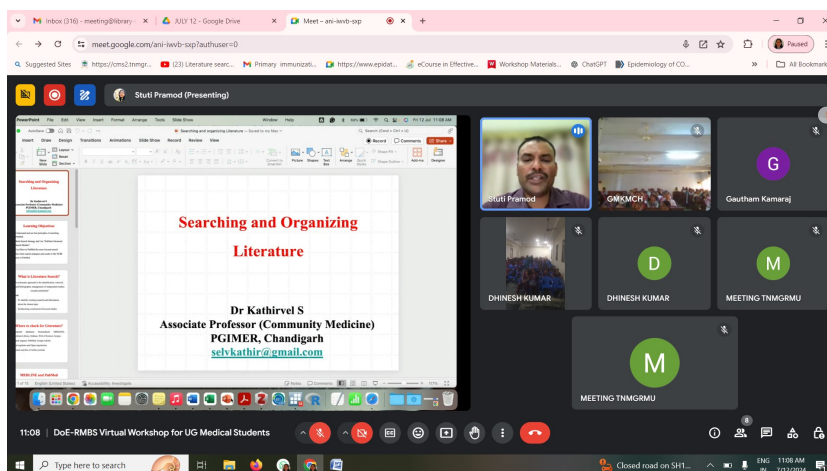
# INTERACTIVE SESSIONS BY THE EXPERTS



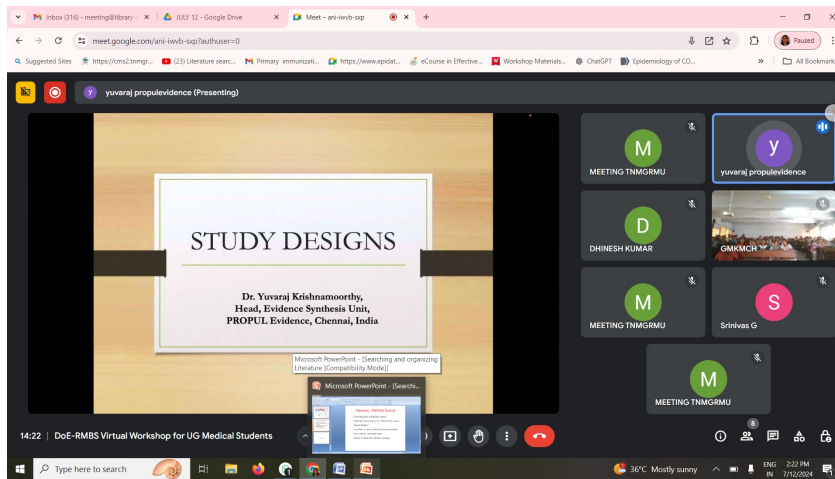
Introducti by Dr. Srinivas G



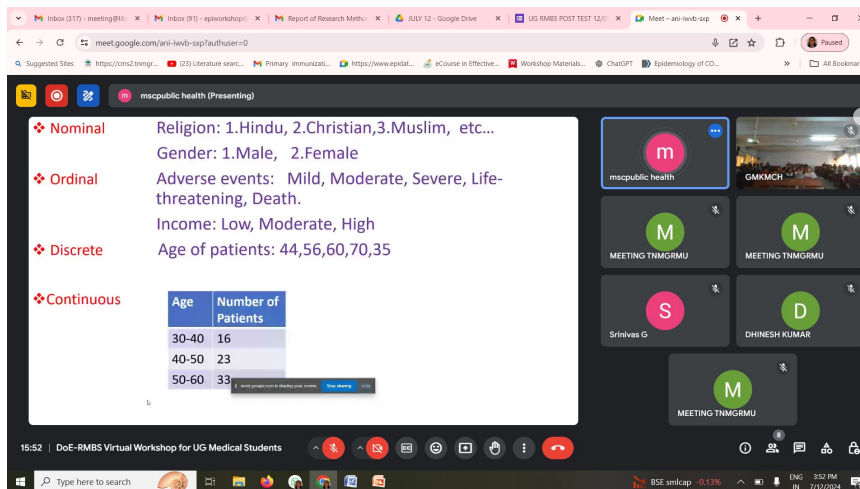
Research Ideas/ Questions & Objectives by Dr. Gugapriya



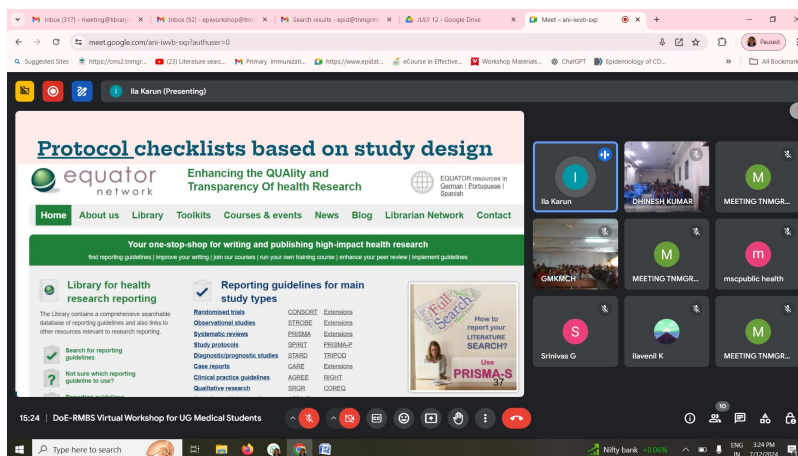
Searching and Organizing Literature by Dr. S.Kathirvel.



Research Designs by Dr.Yuvaraj.



Basic Biostatistics in Health Research by Dr. Paridayal



Research Protocol by Dr.Ilavenil

## PRE-TEST AND POST-TEST SCORES (OUT OF 210)

	PRE-TEST	POST-TEST
MEAN	7	9
MEDIAN	7	9

### OVERALL REPORT:

The Workshop on Research Methodology & Biostatistics was a well-organized program aimed at introducing undergraduate students to the fundamentals of research.

Dr. Jasmine S. Sundar Senior Assistant Professor's introduction set the foundation for the module. Pre-test and post-test assessments were conducted, and she also explained the results.

Dr. G. Srinivas, Professor and Head of the Department of Epidemiology, led the first session, focusing on issues in health research protocols and publications.

Dr. Gugapriya's session on "Research Ideas/Questions & Objectives" emphasized the importance of framing good research questions to achieve the objectives.

Dr. S. Kathirvel's session on "Searching and Organizing Literature" covered how to use PUBMED for searching and organizing research articles, including a live demonstration of MEDLINE, PUBMED, and citing references in Word documents.

Dr. Yuvaraj discussed various study designs in health research, along with their advantages and disadvantages.

Dr. Paridayal's session on "Basic Biostatistics in Health Research" explained data types, measures of central tendency, normality tests, and parametric and non-parametric tests.

Dr. Ilavenil spoke about the elements of protocol writing in her session .

The workshop provided invaluable knowledge and useful skills that will assist undergraduate students in their academic and research endeavors.