

**REPORT ON-WORKSHOP ON RESEARCH METHODOLOGY & BIOSTATISTICS**

**UNDERGRADUATE MEDICAL STUDENT- 28-06-2024**



**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 June 28, 2024.

On June 28, 2024, students from Thiruvannamalai Medical College, and ESIC Medical College and PGIMSR, Chennai participated in the online 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 adhered to a well-structured schedule, commencing with the presentation of a QR code for pre-test on Research Methodology and Biostatistics. Following this, a series of technical sessions were delivered, accompanied by interactive sessions to encourage active participation and deepen participants' comprehension. As the lecture series ended, a QR code for a post-test and feedback was shared, enabling attendees to further assess their understanding and provide valuable input. Totally 69 undergraduate students benefited from this workshop.

#### **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
6. Common sins in health research

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

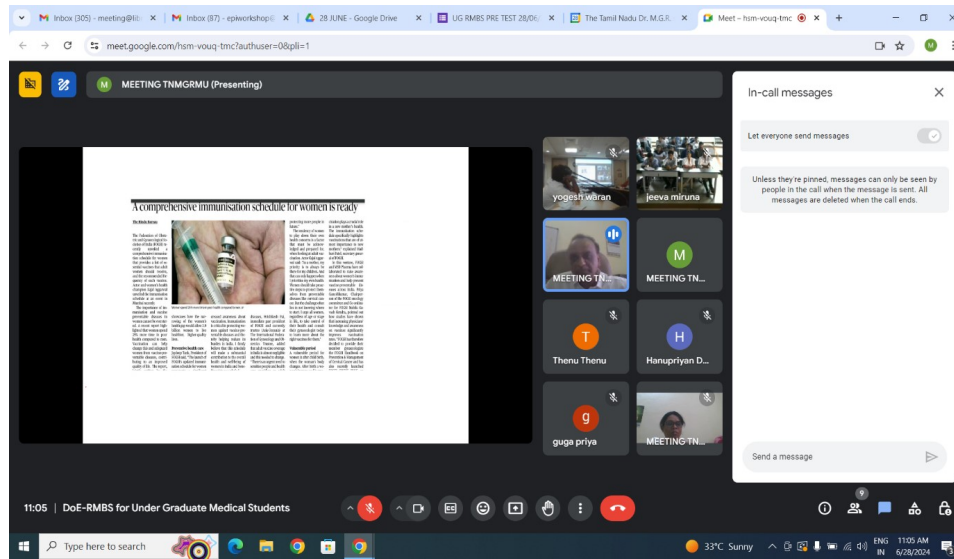
# THIRUVANNAMALAI MEDICAL COLLEGE



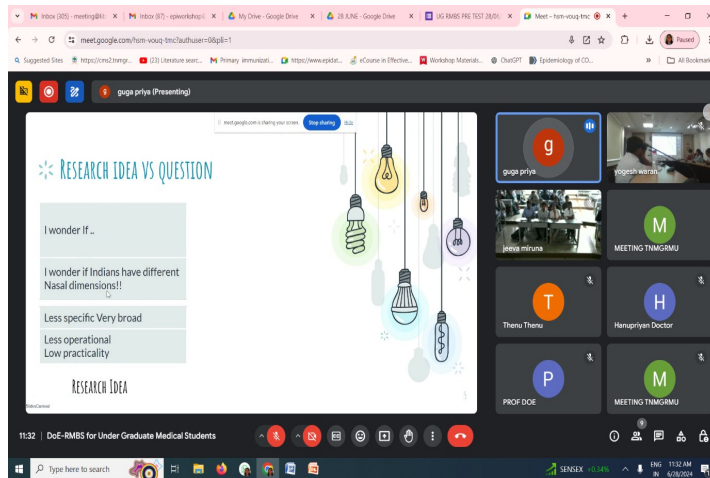
## ESIC MEDICAL COLLEGE & PGIMSR, CHENNAI



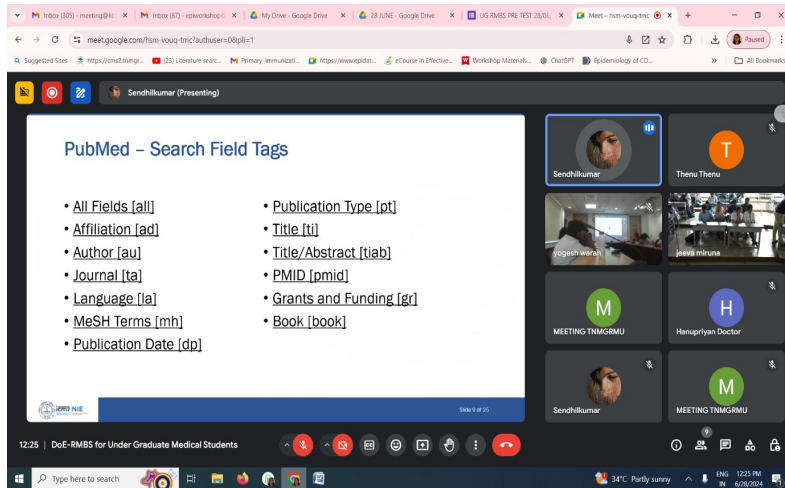
# INTERACTIVE SESSIONS BY THE EXPERTS



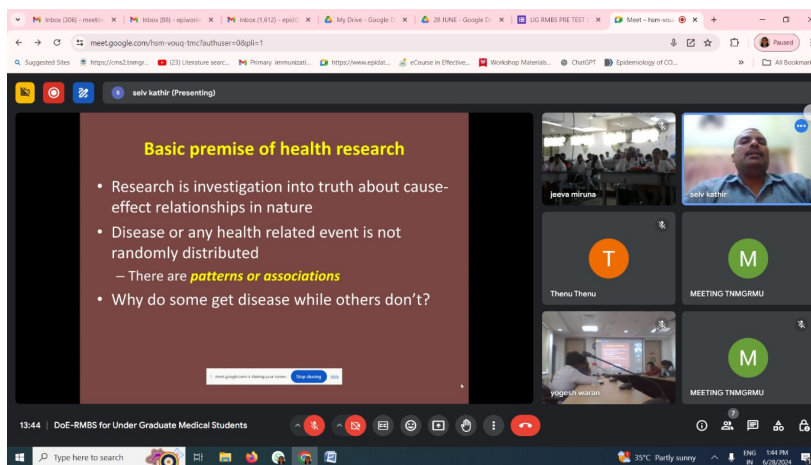
## Introduction of Workshop on Research Methodology & Biostatistics by Dr. Srinivas G



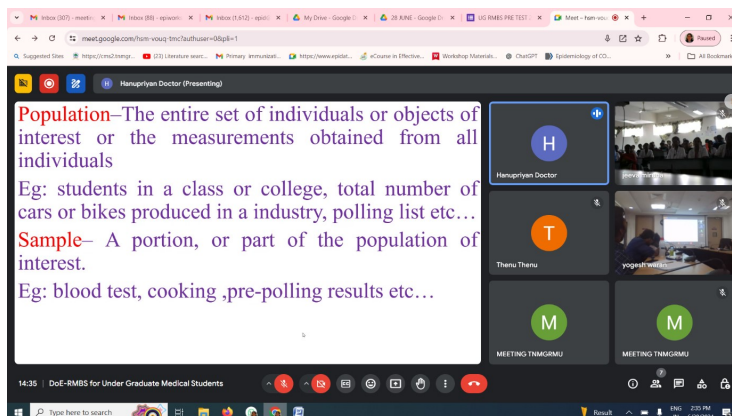
## Research Ideas/ Questions & Objectives by Dr. Gugapriya.



### Searching and Organizing Literature by Dr. Senthilkumar.



### Research Designs by Dr. S. Kathirvel.



### Basic Biostatistics in Health Research by Dr. Paridayal

## PRE-TEST AND POST-TEST SCORES (OUT OF 69)

	PRE-TEST	POST-TEST
MEAN	7	8
MEDIAN	7	8

### OVERALL REPORT:

The Workshop on Research Methodology & Biostatistics is a well-organized program to encourage Under-Graduate students to research fundamentals. Introduction by Dr. Jasmine S Sundar, laid foundation for the module and Pre-Test and Post-Test were conducted and reports were also explained by her.

The first session by Dr. G. Srinivas, Professor and HoD, Department of Epidemiology on “Common Sins in Health Research” highlighted problems in Health Research Protocol and Publication.

“Research Ideas/Questions & Objectives” by Dr. Gugapriya highlighted on importance of framing good question so that objectives of the research can be achieved.

“Searching and Organizing Literature” by Dr. Senthil kumar explained about how to use Zotero software for searching and organizing research articles. He also gave Live Demonstration of Zotero software and how to give referencing in Word Document.

“Research Designs” by Dr. S. Kathirvel spoke about various study designs in Health Research and it’s advantages and disadvantages.

“Basic Biostatistics in Health Research” by Dr. Paridayal explained about Data and types of data, Measures of Central Tendency, Normality test and Parametric & Non-Parametric test.

“Research Protocol” by Dr. Ilavenil is about protocol writing for the research question.

In summary, the workshop has endowed us with priceless insights and practical skills indispensable for our academic and research endeavors. I am sanguine that the knowledge assimilated will substantially augment our future pursuits.