



स्वामी राम हिमालयन विश्वविद्यालय  
Swami Rama Himalayan University

*Department of Community Medicine  
Himalayan Institute of Medical Sciences, SRHU*

**WORKSHOP  
ON**

**BASIC STATISTICAL METHODS IN MEDICAL  
RESEARCH**

**19TH -20TH JUNE 2023**

**Venue: Medical Auditorium, Near Emergency Building  
Himalayan Hospital**

**Resource Persons**



**Dr. R.M Pandey**  
Ex- Professor & Head  
Dept. of Biostatistics  
AIIMS, New Delhi



**Dr. Jeeva Sankar**  
Additional Professor  
Dept. of Pediatrics  
AIIMS, New Delhi



**Dr. A.K Deorari**  
Principal  
HIMS, SRHU

**Organizing Chairpersons**

**Dr. A.K Srivastava**  
Professor  
Dept. of Community Medicine  
HIMS, SRHU

**Dr. Jayanti Semwal**  
Professor & Head  
Dept. of Community Medicine  
HIMS, SRHU

**Coordinators**

**Mr. Abhinav Bahuguna**  
Lecturer  
Dept. of Biostatistics  
HIMS,SRHU

**Mrs. Akanksha Uniyal**  
Assistant Lecturer  
Dept. of Biostatistics  
HIMS, SRHU

**Contact No: 0135-2471253, 7906078248**

# Workshop on Basic Statistical Methods in Medical Research

19<sup>th</sup> – 20<sup>th</sup> June , 2023

Department of Community Medicine, Himalayan Institute of Medical Sciences,  
Swami Rama Himalayan University, Swami Ram Nagar, P.O. Doiwala, Dehradun – 248146 (U.K.)  
Tel: 0135-2471253

Dated: 13/06/2023

To,

HOD/ In -charge  
HIMS, SRHU

**Subject-** Regarding nomination of two faculties for the “workshop on Basic Statistical Methods in Medical Research” on 19<sup>th</sup> -20<sup>th</sup> June 2023

Dear Sir/Ma'am,

Greetings from Himalayan Institute of Medical Sciences, SRHU!

We are pleased to inform you that the Department of Community Medicine, Himalayan Institute of Medical Sciences, Swami Rama Himalayan University is organizing a “**workshop on Basic Statistical Methods in Medical Research**” on 19<sup>th</sup> – 20<sup>th</sup> June 2023.

The resource persons for the workshop will be:

1. Dr. R.M. Pandey (Ex-Professor & Head, Department of Biostatistics, AIIMS, New Delhi)
2. Dr. M Jeeva Sankar (Additional Professor, Department of Pediatrics, AIIMS, New Delhi)
3. Dr. Harsh Priyadarshi (Assistant Professor, Department of Orthopedics, HIMS, SRHU)

In this regard, you are required to nominate two faculties from your department for their active participation in the workshop for two days.

The topics of the workshop are as follows:

1. Types of data and summarizing data
2. Population vs. sample, Central Limit Theorem, Empirical sampling distribution of means
3. Hypothesis testing and p-values
4. Bias, confounding and interaction
5. Correlation and Regression
6. Association and causation
7. Sample size estimation
8. Development of proforma and data management
9. Survival Analysis
10. Systematic review
11. Grade Methodology

The program schedule for the workshop is attached in the ANNEXURE I.

With kind regards,

**Dr Jayanti Semwal**

*Prof. and Head*

*& Organizing Chairperson*

*Department of Community Medicine*

# Workshop on Basic Statistical Methods in Medical Research

19<sup>th</sup> – 20<sup>th</sup> June , 2023

Department of Community Medicine, Himalayan Institute of Medical Sciences,  
Swami Rama Himalayan University, Swami Ram Nagar, P.O. Doiwala, Dehradun – 248146 (U.K.)

Tel: 0135-2471253

HIMS, SRHU

## Annexure 1

### Program Schedule June 19<sup>th</sup>- 20<sup>th</sup>, 2023

#### Day 1: June 19, 2023

<i>Time</i>	<i>Topic</i>	<i>Faculty</i>
9:15 - 9:30	Introduction of the faculty and participants	
9:30 - 10:15	Types of data and summarizing data	Dr. M. Jeeva Sankar
10:15 - 11:00	Population vs. sample; Central limit theorem; Empirical sampling distribution of means	Dr. R.M Pandey
11:00 - 11:15	Tea	
11:15 - 12:15	Hypothesis testing and P-values	Dr. M. Jeeva Sankar
12:15 - 1:00	Bias, confounding, and interaction	Dr. R.M Pandey
1:00 - 1:15	Open house	
1:15 - 2:15	Lunch	
2:15 - 3:15	Correlation & regression	Dr. M. Jeeva Sankar
3:15 - 4:30	Hands-on demonstration	All faculty
4:30 - 4:45	Open house	

#### Day 2: June 20, 2023

<i>Time</i>	<i>Topic</i>	<i>Faculty</i>
9:15 - 10:00	Association and causation	Dr. R.M Pandey
10:00 - 11:00	Sample size estimation	Dr. M. Jeeva Sankar
11:00 - 11:15	Tea	
11:15 - 12:15	Development of proforma and data management	Dr. R.M Pandey
12:15 - 1:00	Survival analysis	Dr. M. Jeeva Sankar
1:00 - 1:15	Open house	
1:15 - 2:15	Lunch	
2:15-2:45	Systematic Review	Dr. Harsh Priyadarshi
2:45 – 3:15	GRADE methodology	Dr. M. Jeeva Sankar
3:15 – 4:00	Hands-on demonstration	Dr. Harsh Priyadarshi