

# ONE WEEK ONLINE INTERNATIONAL WORKSHOP ON BIOSTATISTICS

**August 22<sup>nd</sup> -28<sup>th</sup> , 2024**



## Organized By

**Resilient Foundation for Academic Innovation & Scientific Research,  
New Delhi**

**In collaboration with  
Biostatistics Consortium, INDIA**



## ONE WEEK ONLINE INTERNATIONAL WORKSHOP ON BIOSTATISTICS

**August 22<sup>nd</sup> -28<sup>th</sup> , 2024**

### ABOUT WORKSHOP:

Biostatistics is a backbone of any health research. It provides insights from research data which can further be used for scientific advancement and betterment of society. This workshop is an attempt to provide a platform to researchers, academicians and industry professionals to enrich their analytical skills using statistical techniques in health research. The workshop will cover important statistical concepts alongwith analysis of biomedical data.

### ABOUT RESILIENT FOUNDATION:

Resilient Foundation for Academic Innovation & Scientific Research, New Delhi is a not- for- profit organization registered under section 8 of the companies' act 2013, India. The organization is established having primary aim to promote academic & research activities through knowledge sharing, innovation, skill development and capacity building in various sectors like academia, industry and government for betterment of society. For more details please visit <https://theresilientfoundation.org>

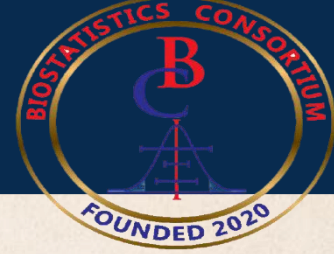
### ABOUT BIOSTATISTICS CONSORTIUM:

Biostatistics Consortium is a national level Non-Governmental Organisation (NGO). This is established with aim to develop and improve quality of research methodology for valid results in biomedical research. Its objective is to provide world class statistical services to biomedical researchers, and to build Biostatistical capacity among biomedical researchers and biostatistics professionals. It also focuses on developing resources for excellent biostatistics consultancy and improved research, policy advocacy for improved methodology and good practices in the domain of biomedical research.



Visit Our  
Website

<https://theresilientfoundation.org/>



# Course Content

Days	Topics Covered
Day 1 ( 22 August, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Overview of Bio statistical Applications in Medical Research</li><li>❖ Study Design: Observational &amp; Experimental / clinical studies</li><li>❖ Selection Bias, Randomization, Replication</li></ul>
Day 2 ( 23 August, 2024) Timing: 06:30 PM- 08.30 PM	<p><b><i>Epidemiological considerations in designing a health research study</i></b></p> <ul style="list-style-type: none"><li>❖ Measures of disease frequency</li><li>❖ Descriptive study designs</li><li>❖ Analytical study designs</li><li>❖ Experimental study designs</li><li>❖ Validity of epidemiological studies</li></ul>
Day 3 ( 24 August, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Systematic Review and Meta Analysis</li><li>❖ Applications of various software for Systematic Review and Meta Analysis</li></ul>
Day 4 ( 25 August, 2024) Timing: 06:30 PM- 08.30 PM	<p><b>Testing of Hypothesis in medical research</b></p> <ul style="list-style-type: none"><li>❖ Null and Alternate Hypothesis</li><li>❖ Concept of p-value</li><li>❖ Type I and Type II errors</li><li>❖ ROC Curve</li></ul>
Day 5 ( 26 August, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Sampling Techniques in health research</li><li>❖ Sample Size Determination using Statulator</li></ul>
Day 6 ( 27 August, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Introduction to Survival Analysis</li></ul>
Day 7 ( 28 August, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Introduction to clinical trials</li></ul>

## About Resource Persons of Workshop

**1. Dr. Ravinder Singh**, is medical graduate with doctorate training in public health. He is looking after the areas of mental health, disability, rehabilitation and assistive technologies at ICMR Headquarters (Department of Health Research, Ministry of Health & Family Welfare, Government of India), New Delhi. He completed his Ph.D. (Public Health) on Adolescent Stress from Jawaharlal Nehru University in 2013. He has experience of more than two decades in health research.



**2. Dr. Ashoo Grover** is Currently working as Scientist 'F' (Medical) Deputy Director General Senior Grade at ICMR She promoted a Special programme for Medical Colleges for Research Methodology Courses, Establishment of Multidisciplinary Research Units in Govt. medical colleges, Model rural Health Research Units in 25 States in India, mechanisms for Health Technology Assessment at DHR, MOHFW. She has experience of more than two decades in research. She is editor of many national and international journals.



**3. Dr. Gayatri Vishwakarma** is an experienced Biostatistician having 14+ years of post-PhD work experience in academics and research. Dr. Gayatri is currently working as Principal Scientist, ZYDUS LIFESCIENCES LTD, Zydus Research Centre, Gujrat. She worked as Biostatistician with Department of Research at Rajiv Gandhi Cancer Institute, New Delhi. She worked as Visiting Scientist at University of Texas Health Science Center, Tyler TX, USA. She also worked as Monitoring & Evaluation Specialist in Woodward Charitable Foundation, Ethiopia. She has got PhD in Statistics from Jabalpur University and post-doctoral training at University of Saskatchewan, Canada. .



**4. Dr. Smita Asthana** is currently working with ICMR-National Institute of Cancer Prevention & Research, Noida as Scientist E and having 16 years of working experience in Cancer Epidemiology & Biostatistics. She is a Course Coordinator of Biostatistics and Epidemiology Training Centre. She also contributed to National and International funded research projects in cancer research. She is presently Principal Investigator of Population based cancer registry project for GB Nagar, Noida of ICMR-NICPR and Co-PI of various research projects. She had received several awards for the best work in cancer epidemiology, such as ICMR's prestigious award "M. K. Seshadri" on 2016 for the best work and Dr Nandagudi Suryanarayana Rao Award in 2019 from National Academy of Medical Sciences (NAMS) for best paper in Oral Cancer.



**5. Dr. Shambhavi Mishra**, Assistant Professor in the Department of Statistics, University of Lucknow, since January 2016, has significantly contributed to statistics and biostatistics domains. After earning her Master's in Statistics from Lucknow University in 2011, she worked as a Statistical Fellow in SGPGI's Department of Biostatistics & Health Informatics for three years. She was also a Biostatistician and Data Analyst for the Bill & Melinda Gates-funded Community Empowerment Lab. She represented India at two WHO Data Analysts' Meets in Geneva and one at Stanford School of Medicine, Stanford University, USA.



# Methodology

Online live classes by eminent experts

Recordings of the all sessions

Participatory discussion with Q&A

Hands on Session with software

# Nature of Participants

Faculties, health professionals , medical students, post-doctoral fellows, industry professionals , UG, PG students of medical colleges and relevant areas etc.

# Duration & Time

For seven Days ( 22<sup>nd</sup> – 28<sup>th</sup> August, 2024 )

Timing (02 Hours): 6:30PM-8:30PM

**Registration Fee for all participants = Rs. 600/-**

Registration Fee for all participants = Rs. 500/-

## Registration Process:

**Step-I**- Registration can be done using the given link

<https://theresilientfoundation.org/current-events/>

**Step-II**- You will get confirmation mail from organizers on your registered email and link for joining the official “**whats app group**” for future communication regarding the workshop.



# Workshop Rule

## Highlights of the Workshop

- Registered participants will get E-certificates.
- Video recording of all sessions will be provided to all registered participants.
- Workshop by Subject Expert from reputed Institute of India.
- Workshop will be on the Zoom meeting platform.

## For Further Queries

Please mail us at [info@resilientfoundation.in](mailto:info@resilientfoundation.in) or call at +91-8840112492

**Last Date of Registration**

**21<sup>st</sup> August, 2024 at 12:00 PM**

# Organising Team of the Workshop



**Dr. Abhaya Indrayan**

MSc, MS, PhD (Ohio State), FAMS, FSMS, FRSS, FASc  
Biostatistics Consultant, Max Healthcare  
Former Professor & Head , Department of Biostatistics  
& Med Info Delhi University College of Medical  
Sciences, Delhi  
**(Convener)**



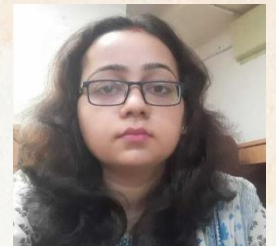
**Prof. Karan P. Singh**  
School of Medicine,  
University of Texas, USA  
(Co-Convenor)



**Dr. D.K. Yadav**  
Assistant Professor  
NIHFW, New Delhi  
(Organizing Secretary)



**Dr. RAJEEV KUMAR MALHOTRA**  
Senior Scientist (Statistics), Dr  
BRA IRCH, AIIMS, Delhi  
(Organizing Secretary)



**Richa Singh**  
Director  
Resilient Foundation for  
Academic Innovation &  
Scientific Research, New Delhi