

Three Days Hands-on Workshop on Biostatistics:
“A Backbone of Bio-Medical Research”
(Offline Mode)



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

RMRIMS
RAJENDRA MEMORIAL RESEARCH
INSTITUTE OF MEDICAL SCIENCE

03-05 July, 2024



Organized by

ICMR-Rajendra Memorial Research Institute of Medical Sciences, Patna

Funded by

Dept. of Health Research, Ministry of Health and Family Welfare, Govt. of India

About Organization (ICMR)

The Indian Council of Medical Research (ICMR) is one of the oldest and largest medical research body established in the year 1911. The ICMR is funded by the Indian government under the Department of Health Research, Ministry of Health and Family Welfare. The mission of ICMR is to promote and conduct biomedical research to address the health challenges of the country. The Indian Council of Medical Research plays a crucial role in the capacity building through training programs, fellowships, and scholarships to scientists, researchers, healthcare professionals, and students in biomedical research and public health. The research findings and recommendations generated by ICMR contribute to evidence-based policy formulation, healthcare planning, and program implementation at the national and state levels.

For more information visit - <https://main.icmr.nic.in/>

About Institute (ICMR-RMRIMS, Patna)

Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Agamkuan, Patna is one of the permanent institutes of Indian Council of Medical Research, New Delhi. The institute has an area of nine (09) acre of land with research wing, administrative wing and residential quarters for the staff. The institute is named in the memory of late Dr. Rajendra Prasad, first president of Republic of India, a great visionary of the country. Its main thrust is Visceral Leishmaniasis research. The mission of RMRIMS, Patna is to provide technical support to the policy makers and implementers to combat the kala-azar disease at the ground level through conducting high quality research on diagnosis, treatment and control as well as capacity building to the different stakeholders. Besides Kala-azar, the Institute is rolling forward to broaden its research focus on HIV/AIDS, tuberculosis and other tropical diseases and come forward as a centre of excellence on the land of Bihar. Institute is committed to the Kala-Azar Elimination Programme of the Government of India, by providing better research facilities, tools and technologies for diagnosis/treatment and provides strategies for vector control. Institute adopts highest standards of clinical practices for the patient care. The RMRIMS not only conducts cutting-edge research but also serves as an opinion leader, training hub, and advocacy agency in the fight against leishmaniasis and HIV in Bihar.

For more information visit - <https://www.rmrims.org.in/>

About The Workshop

This workshop on Biostatistics is designed to offer participants a comprehensive understanding of statistical methods within the realm of biological and health sciences. The interactive session aims to equip attendees with essential skills in study design, providing insights into the principles of experimental and observational research. The workshop will delve into the world of descriptive and inferential statistics, guiding participants through the interpretation of data and making informed inferences about populations. Hands-on experience with statistical software's commonly used in biostatistics will empower participants to apply their knowledge in practical scenarios. With a commitment to fostering a collaborative learning environment, this workshop aims to enhance participants' statistical literacy, critical appraisal of research studies, and ability to communicate findings effectively in the context of biological and health research.

Workshop contents

- **Introduction to Biostatistics.**
- **Statistical Data Concepts.**
- **Descriptive Statistics.**
- **Sampling Methods along with sample size determination techniques.**

- **Inferential Statistics.**
- **Theory of estimation.**
- **Testing of hypothesis.**
- **Epidemiological study designs and measures.**
- **Statistical Measures for screening and diagnosis tools (Sensitivity and Specificity).**
- **Citation Network Analysis (CNA).**
- **Hands-on Sessions on above topics using different statistical software packages.**

Objectives of the workshop

- To develop a solid foundational understanding of the role and significance of biostatistics in biomedical research and health sciences.
- To equip participants with the knowledge and skills necessary for designing robust and well-controlled experiments and observational studies.
- To foster a mastery of both descriptive and inferential statistical techniques, enabling participants to effectively analyze and interpret data sets common in biological and health research.
- To ensure hands-on proficiency with widely-used statistical software (e.g., R, Python, Excel, Epi Info), empowering participants to apply Biostatistical methods to real-world research scenarios.
- To develop participants' ability to critically appraise research studies, particularly focusing on the statistical methods employed, thereby enhancing their research evaluation capabilities.
- To enhance participants' skills in communicating statistical findings to both technical and non-technical audiences, promoting clear and accurate dissemination of research results.
- To provide participants with resources, references, and tools for ongoing learning, ensuring they have the support needed to continue developing their Biostatistical knowledge beyond the workshop.

Our Esteemed Speakers

- **Dr. Krishna Pandey**, Scientist - G & Director ICMR-Rajendra Memorial Research Institute of Medical Sciences Agamkuan, Patna, India.
- **Dr. M. Vishnu Vardhana Rao**, Scientist - G & Director (retd.) National Institute of Medical Statistics, (Indian Council of Medical Research), Former HOD, AI cell, ICMR Ansari Nagar, New Delhi -110029 – India.
- **Dr. S. N. Dwivedi**, Former Senior Professor, Department of Biostatistics, & Adjunct Faculty, Clinical Epidemiology Unit, All India Institute of Medical Sciences, New Delhi.
- **Prof (Dr.) Arun Kumar Sinha**, Rtd. Professor and Head, PG Department of Statistics, Patna University and Rtd Vice-chancellor, Patna University, Patna.
- **Prof (Dr.) Rama Shankar Mishra**, Ex Prof & HOD, PG Department of Statistics, Science College, Patna University, Patna.
- **Prof. Aquil Ahmed**, Professor, Department of Statistics & Operations Research, Aligarh Muslim University, Aligarh-202002-India. Formerly, Dean, Faculty of Physical & Material Science and Head, Department of Statistics, University of Kashmir, Srinagar.
- **Dr. Faizan Danish**, Assistant Professor (Statistics), Vellore Institute of Technology-Andhra Pradesh (VIT-AP) University and Former Postdoctoral Fellow at Division of Biostatistics, Department of Population Health, NYU School of Medicine, New York University, New York, United States.
- **Dr. Niyamat Ali Siddiqui**, Scientist-E (Biostatistics), ICMR-Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna Bihar, India.

- **Dr. Qaiser Farooq Dar**, Scientist-C (Biostatistics) ICMR – National Institute of Research in Tribal Health Nagpur Road, PO Garha, Jabalpur 482003, India.
- **Dr. Ashiq Hussain Bhat**, Scientist-C (Biostatistics), ICMR-Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna Bihar, India.
- **Dr. Yash Paul Sharma**, Scientist-C, ICMR-Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna Bihar, India.

Who Can Apply

Faculties, scientists, Residents from Medical Colleges, Nursing Colleges, Demographers, Epidemiologist from Govt. and Pvt. organization all faculty members (regular/ad-hoc/temporary/guest) from any Indian/Foreign university/college, Ph. D. research scholars and UG & PG Students of Biochemistry, Biotechnology, Biostatistics, Biomedical, Medical and related areas are eligible to apply.

Pre-requisite

Participants should have a basic understanding of statistical concepts and methods. A passion for learning and an interest in applying statistical methods to medical research are the primary prerequisites. **All who want to apply for this workshop are requested to get the approval letter from the competent authority.**

The workshop is limited to 30 participants. Selection of participants is based upon “First Come First Serve” Basis (FCFS).

Venue of the workshop

The Workshop will be conducted at auditorium ICMR-Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna-800007, India.

Important dates

Last date for application: 15th June, 2024.

Workshop dates: 03-05 July, 2024.

Scan for Registration



Registration Fee

The registration fee is Rs. 1000/- (Rupees One Thousand only) per person without accommodation which is inclusive of GST rates. It covers the cost of training programme kit, lunch and tea during the workshop period. The payment should be made either through Demand Draft in favor of Director RMRIMS, Patna Payable at Patna or through by NEFT /RTGS to Ac.No.: **10298566243**, IFSC Code: **SBIN0007878**, Branch: SBI Agamkuan Patna along with filled-in registration form. Fee is non-refundable and non-adjustable.

The application for registration to the workshop should be submitted online at:

https://nicforms.nic.in/nicforms_designer/nic_form_selector.php?form_id=enRhYmxINjY0MTIjMDlkMGQxZjIwMjQwNTEzNg==

on or before **15th June, 2024.**

Travel and Accommodation

The participants have to make their own arrangements for travel and accommodation.

How to Reach

Road Routes: Patna is well-connected by roads to major cities in India. National Highway 30 (NH30) and NH31 pass through the city.

Air Connectivity: Nearest Airport is in Patna called as Lok Nayak Jayaprakash Airport (PAT) which is just 12 KMs away from ICMR-RMRIMS, Patna. Patna is well connected from major cities like Delhi, Mumbai, Kolkata, Bangalore, Chennai, Hyderabad, and others through air route.

Rail Connectivity: The nearest railway stations are Rajendra Nagar Terminal and Patna Junction (PNBE) they are well-connected with major cities across the country India and state Bihar. The Patna Junction (PNBE) and Rajendra Nagar Terminal are located at 7Km and 4Km distance respectively from the ICMR-RMRIMS, Patna.

Patron/Convener	Organizing/Co-organizing Secretary	Organizing Committee
 <p>PATRON:</p> <p>Dr. Rajiv Beal Secretary to Govt. of India & Director General ICMR</p>  <p>CONVENER:</p> <p>Dr. Krishna Pandey Director ICMR-RMRIMS, Patna</p>	 <p>Organizing Secretary:</p> <p>Dr. Niyamat Ali Siddiqui Scientist-E ICMR-RMRIMS, Patna</p>  <p>Co-Organizing Secretary:</p> <p>Dr. Ashiq Hussain Bhat Scientist-C ICMR-RMRIMS, Patna</p>	<p>Organizing Committee</p> <p>Dr. Vahab Ali, Scientist-F, ICMR-RMRIMS, Patna. Dr. Roshan Kamal Topno, Scientist-E, ICMR-RMRIMS, Patna. Dr. G. Chandra Sahoo, Scientist-E, ICMR-RMRIMS, Patna. Dr. Dr. Subhankar Singh, Scientist-E, ICMR-RMRIMS, Patna. Dr. Abhik Sen, Scientist-E, ICMR-RMRIMS, Patna. Dr. Ashish Kumar, Scientist-D, ICMR-RMRIMS, Patna. Shri Udai Kumar, Sr. Accounts Office, ICMR-RMRIMS, Patna. Sri Raj Kumar, Sr. Administrative Officer, ICMR-RMRIMS, Patna Dr. (Major) Madhukar, Scientist-C, ICMR-RMRIMS, Patna. Dr. Manas Ranjan Dikhit, Scientist-C, ICMR-RMRIMS, Patna. Dr. Kavita Bharati, Scientist-C, ICMR-RMRIMS, Patna. Mr. Anil Kumar, Scientist-C, ICMR-RMRIMS, Patna. Dr. Yash Paul Sharma, Scientist-C, ICMR-RMRIMS, Patna. Dr. Qaiser Farooq Dar, Scientist-C, ICMR-NIRTH, Jabalpur. Dr. Gopal Vishwas, Scientist-B, ICMR-RMRIMS, Patna. Dr. Ajay Kumar, Scientist-B, ICMR-RMRIMS, Patna. Dr. Dayakar Alti, Scientist-B, ICMR-RMRIMS, Patna. Dr. Anurag Pappu, Scientist-B, ICMR-RMRIMS, Patna Dr. K. Abhishek, Scientist-C, ICMR-RMRIMS, Patna.</p>

For further information please contact: **Dr. Ashiq Hussain Bhat Scientist-C and Co-organizing secretary.**

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ICMR-Rajandra Memorial Research Institute of Medical Sciences
Dept. of Health Research, Ministry of Health and Family Welfare, Govt. of India.

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