

Medical and Hospital Partnership for Building an Ecosystem for Research

Clinical Research & Research Methodology Workshop Series

TRAINING REPORT

**International Institute of Health Management
Research (IIHMR) Delhi**

March 2025

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Clinical Research & Research Methodology Workshop Series

About the workshop series

Clinical research plays a pivotal role in advancing medical knowledge, shaping healthcare policies, and ultimately improving patient care by providing a scientific foundation for medical decision-making. Research is also an integral part of the medical curriculum as medical postgraduates have to conduct and submit a thesis as a basic requirement for certification. Clinical research training is essential for healthcare professionals as it equips them with the necessary skills and knowledge to conduct rigorous and ethical research in the field of medicine. With the rapid evolution of the healthcare landscape, staying updated with the latest advancements is crucial for providing optimal patient care.

This series of workshops on ‘Clinical Research Methodology: Planning to Translation’ have been designed to enable healthcare professionals to plan robust clinical research studies focusing on ethical and quality aspects, analyze data, and interpret research findings accurately, and identify appropriate channels for research communication. Understanding research methodologies and ethical considerations is vital for ensuring the safety and well-being of study participants. By undergoing clinical research training, healthcare professionals not only contribute to the generation of new knowledge but also enhance their ability to critically evaluate existing literature and apply research findings to improve patient outcomes.

The workshops are intended for early career medical professionals (postgraduate students who are pursuing MD/ MS/ DNB/ super- specialty courses, young faculty members, medical researchers, scientists). Highlights of the workshop are detailed below.

Training on the following topics:

- Scope of clinical research
- Conceptualizing a research study
- Clinical research designs
- Sample size calculation
- Basic biostatistics
- Ethical considerations in research
- Developing research protocol
- Preparation and publication of research manuscript
- Experience sharing of published clinical research studies

Hands on session:

- Data analysis using EpiInfo statistical software

Group work:

- Participants are divided into five groups on the first day of the workshop. Each group prepares a research proposal throughout the course of the workshop which they present on the last day of the workshop.

Three workshops have been completed. The first workshop was held in a ‘training of trainers’ mode. Doctors trained in the first workshop contributed as Resource Persons for subsequent workshops.

Summary of First workshop

Venue: International Institute of Health Management Research, Dwarka campus, New Delhi

Dates: 21st August to 24th August 2023 (full day)

Institutional participations:

- Maulana Azad Medical College, Delhi
- Army Hospital Research & Referral, Delhi
- Atal Bihari Vajpayee Institute of Medical Sciences & RML Hospital, Delhi
- Hamdard Institute of Medical Sciences and Research, Delhi

Independent candidates from the following institutions:

- All India Institute of Medical Sciences, Delhi
- Indian Institute of Public Health, Delhi
- Jawaharlal Nehru Medical College, Aligarh

Total number of trainees: 20

Trainee profiles:

- Designations: Postgraduate residents (MD), Senior Residents, Faculty members (Assistant Professors, Associate Professors), Clinical Research Fellows
- Departments: Community Medicine, Anesthesiology & Critical Care, Neurology

Trainers:

- Prof. Sutapa B Neogi, Director, IIHMR Delhi
- Prof. Preetha GS, Professor and Dean (Research), IIHMR Delhi
- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Himanshu Tolani, Assistant Professor, IIHMR Delhi

Training Coordinators:

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi

- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi
- Dr. Diksha Gautam, Research Officer, IIHMR Delhi

Training assessment

- Training assessment and evaluation is done using a pretest and posttest of 15 marks. The mean post test score (9.3 ± 2.1) had improved from the mean pretest score (7.5 ± 1.8).







Summary of Second workshop

Venue: Army Hospital Research and Referral, New Delhi

Dates: 20th, 23rd, 27th, 30th September and 4th, 7th October 2023 (half day)

Institutional participations:

- Army Hospital Research and Referral, Delhi

Total number of trainees: 37

Trainee profiles:

- Designations: Postgraduate super specialty residents (DM, MCh), Faculty members (Assistant Professors, Associate Professors)
- Departments: General Medicine, Medical Oncology, Pulmonology, Radiation Oncology, Surgical Oncology, Vascular Surgery

Trainers:

- Prof. Preetha GS, Professor and Dean (Research), IIHMR Delhi
- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi

Training Coordinators:

- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi
- Dr. Diksha Gautam, Research Officer, IIHMR Delhi

Training assessment

- Training assessment and evaluation is done using a pretest and posttest of 15 marks. The mean post test score (7.8 ± 1.9) had improved from the mean pretest score (5.9 ± 1.1).







Summary of Third workshop

Master Trainers trained in the first workshop also contributed as Resource Persons

Venue: Maulana Azad Medical College, Delhi

Dates: 4th January to 8th January 2024 (full day)

Institutional participations:

- Maulana Azad Medical College, Delhi

Total number of trainees: 30

Trainee profiles:

- Designations: Postgraduate residents (MD, MS), Faculty members (Assistant Professors)
- Departments: Anaesthesiology, Biochemistry, Community Medicine, Dermatology, ENT & Head & Neck Surgery, Forensic Medicine, Microbiology, Pharmacology, Physiology, Obstetrics & Gynaecology, Orthopaedics, Paediatrics

Trainers:

- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Shweta Goswami, Assistant Professor, MAMC
- Dr. Alka Singh, Senior Resident, MAMC
- Dr. Rahul Kumar, Senior Resident, MAMC
- Dr. Akash Deep Chauhan, Senior Resident, MAMC

Training Coordinators:

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi
- Dr. Diksha Gautam, Research Officer, IIHMR Delhi
- Dr. Shweta Goswami, Assistant Professor, MAMC
- Dr. Praveenkumar KR, Postgraduate Resident, MAMC

Training assessment

- Training assessment and evaluation is done using a pretest and posttest of 15 marks. The mean post test score (8.6 ± 1.6) had improved from the mean pretest score (6.7 ± 2.2).







Summary of the Fourth Workshop

Venue: IIHMR Delhi

Dates: 16th September 2024 to 18th September 2024

Independent candidates from the following institutions:

- St Stephens Hospital
- Jawaharlal Nehru University, Delhi
- All India Institute of Medical Science, New Delhi
- Indian Institute of Public Health, Gurgaon Haryana
- Jamia Millia Islamia University, Delhi
- IIHMR Delhi

Total Number of Trainees: 14

Trainee Profile:

- Designation: Junior Resident, Consultant, Program Manager, Research Scholar, Research Fellow

- Department: Community Medicine

Trainers:

- Prof. Sutapa B Neogi, Director, IIHMR Delhi
- Prof. Preetha GS, Professor and Dean (Research), IIHMR Delhi
- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi

Training Coordinators:

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi

Training Assessment:

Training assessment and evaluation is done using a pretest and post test of 15 marks. The trainees showed improvement with workshop mean pretest score 6.2+/-1.6 to mean post test score 8.1+/-2.3 (p value 0.02).





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Summary of the Fifth Workshop

Venue: ESIC Faridabad

Dates: 25th November 2024 to 28th November 2024

Institutional participations:

- ESIC Hospital, Faridabad

Total Number of Trainees: 42

Trainee Profile:

- Designations: Post Graduate Residents, Senior Residents, Assistant Professor, Research Scholar, Scientist B and Scientist C
- Departments: Anaesthesia, Anatomy, Biochemistry, Community Medicine, ENT, General Surgery, Medicine, Microbiology, MRU, Obstetrics & Gynaecology, Paediatrics, Pathology, Physical Medicine & Rehabilitation, Physiology, Psychiatry, Radiology, Respiratory Medicine,

Trainers:

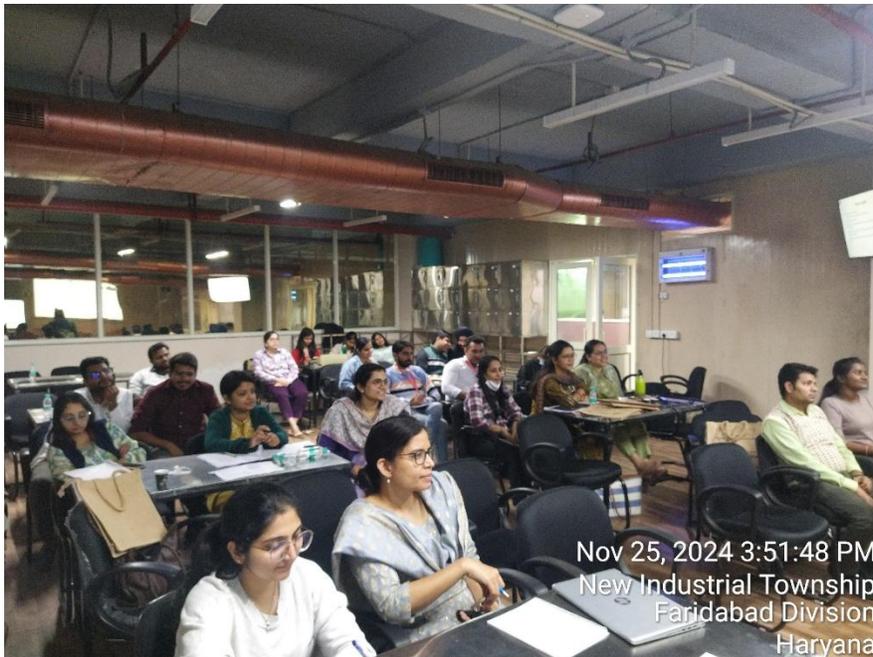
- Prof. Preetha GS, Professor and Dean (Research), IIHMR Delhi
- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi

Training Coordinators:

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi

Training assessment:

Training assessment and evaluation is done using a pretest and post test of 15 marks. The mean workshop post test score (8.2+/-1.8) had improved from the mean pretest score (6.8+/-2.2) (p value 0.02).





Summary of the Sixth Workshop

Master Trainers trained in the first and third workshop also contributed as Resource Persons

Venue: Maulana Azad Medical College, Delhi

Dates: 5th March to 8th March 2025 (full day)

Institutional participations:

- Maulana Azad Medical College, Delhi

Total number of trainees: 36

Trainee profiles:

- Designations: Postgraduate residents (MD, MS), Faculty members (Assistant Professors)
- Departments: Anaesthesiology, Biochemistry, Community Medicine, Dermatology, ENT & Head & Neck Surgery, Forensic Medicine, Microbiology, Pharmacology, Physiology, Obstetrics & Gynaecology, Orthopaedics, Paediatrics

Trainers:

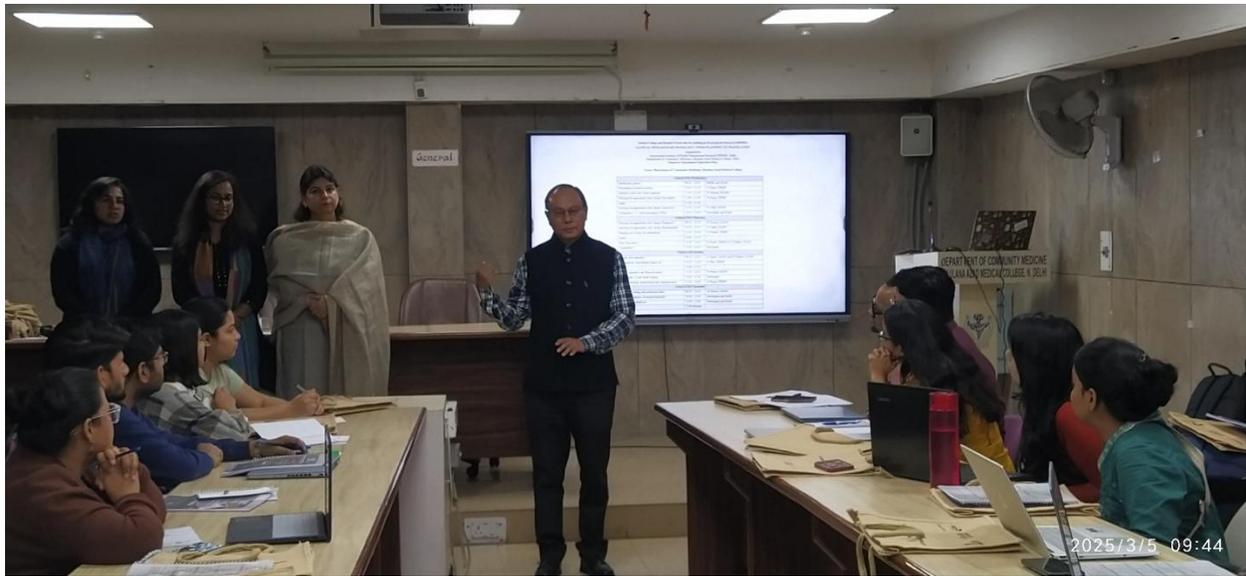
- Prof. Preetha GS, Professor and Dean (Research), IIHMR Delhi
- Dr. Ekta Saroha, Associate Professor and Dean (Training), IIHMR Delhi
- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Shweta Goswami, Assistant Professor, MAMC
- Dr. Anika Sulania, Assistant Professor, MAMC
- Dr. Rahul Kumar, Senior Resident, MAMC
- Dr. Hariom K Solanki, Assistant Professor, MAMC
- Dr. Nidhi Bhatanagar, Associate Professor, MAMC
- Dr. Pragya Sharma, Professor, MAMC
- Dr. Anida Debnath, Assistant Professor, MAMC
- Dr. Mitasha Singh, Assistant Professor, Dr. Baba Saheb Ambedkar Medical College and Hospital, Delhi

Training Coordinators:

- Dr. Rupsa Banerjee, Assistant Professor, IIHMR Delhi
- Dr. Dikshant Chauhan, Manager Training, IIHMR Delhi
- Dr. Shweta Goswami, Assistant Professor, MAMC
- Dr. Rahul Kumar, Senior Resident, MAMC
- Dr. Irena mandal, MAMC

Training assessment

- Training assessment and evaluation is done using a pretest and post test of 15 marks. The mean post test score (7.1+/-2.1) had improved from the mean pretest score (5.8+/-1.7) (p value 0.03) .







Key Highlights Workshop Series

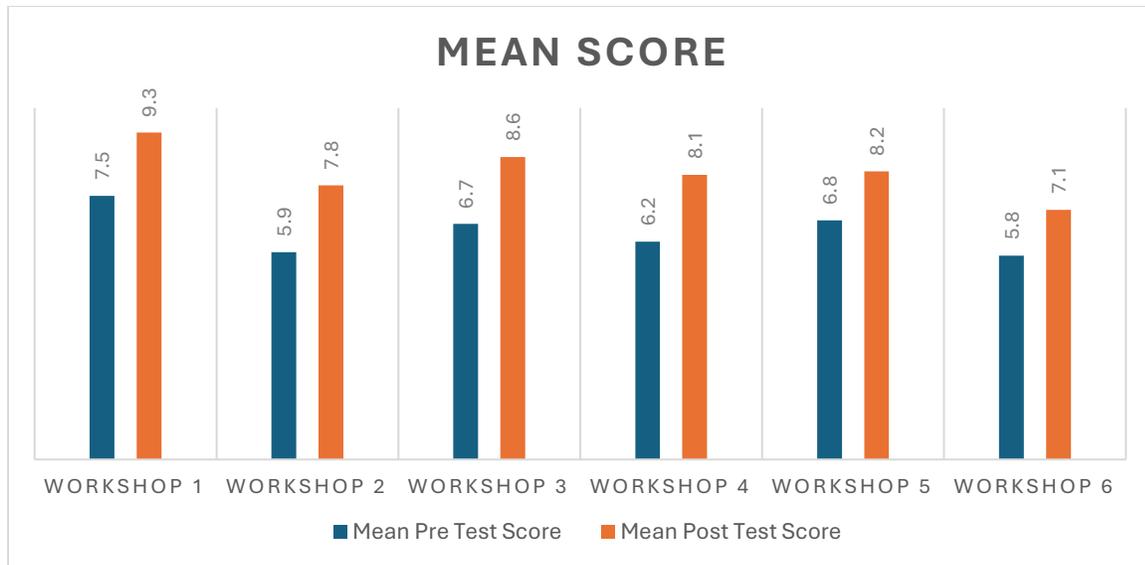
Over the course of six workshops, the training program was conducted in different institutions, each contributing to the growing research network. The workshops trained 179 participants, including postgraduate students, senior residents, faculty members, and researchers.

Across all workshops, participants demonstrated a significant improvement in research skills, the participants formed research groups and initiated interdisciplinary projects, gained practical experience in developing research protocols and analyzing data.

The workshop series demonstrated significant improvements in participant knowledge and research skills. Below is the overall summary of participant performance across all six workshops:

Workshop	Participants	Mean Pre-Test Score	Mean Post-Test Score	Improvement
First Workshop	20	7.5	9.3	+1.8
Second Workshop	37	5.9	7.8	+1.9
Third Workshop	30	6.7	8.6	+1.9
Fourth Workshop	14	6.2	8.1	+1.9
Fifth Workshop	42	6.8	8.2	+1.4
Sixth Workshop	36	5.8	7.1	+1.3
Total	179	6.5	8.2	+1.7

The aggregated results indicate an overall improvement in research knowledge and skills across all participants, with a mean increase of **1.7 points** from pre-test to post-test scores. This reflects the effectiveness of the hands-on training approach and structured learning methodologies implemented in the workshop series.



The initiative underscores the need for continuous investment in clinical research training, ensuring a future generation of healthcare professionals equipped to contribute to evidence-based medicine and improved patient care.

The Clinical Research & Research Methodology Workshop Series has successfully built research capacity among medical professionals, enhancing their ability to design and conduct meaningful clinical research. The structured, hands-on approach and the train-the-trainer model have created a sustainable training ecosystem, fostering continued learning and collaboration.

Training Feedback

All three training sessions got good feedback from the participants.

“This course is must-do for all clinicians and research workers.” – 2nd workshop, AHRR

“Statistics has never been my forte but after this workshop now I can at least look and feel more comfortable handling data.” – 2nd workshop, AHRR

“We never thought about research in so much detail before.” – 3rd workshop, MAMC

“Appreciate for choosing few participants for the workshop.” – 1st workshop, IIHMR

“Need frequent such workshop. It encourages group participation, helps in tackling stage fear and provide interaction among different departments.” – 6th workshop, MAMC

Some suggestions for improvement, especially regarding the duration of training, were received.

“Course duration could be extended so as to increase individual participation”. – 2nd workshop, AHRR

“Timing of workshop can be extended by one or two more days.” – 1st workshop, IIHMR

“Critical appraisal of published papers should be included.” – 1st workshop, IIHMR

“By increasing workshop period and repeating such workshop in future” – 6th Workshop, MAMC

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Statement of Expenditure

for Preparatory phase + series of 6 workshops (210 participants)

I. Preparatory Phase (@3months)								
Name	Description of Role/Function	Number of Persons	Number of Months/units	Number of days per month	Unit cost	Budget Amount (INR)	Actual Expenses	Balance Amount
Faculty Time	Developing training plan & curriculum, modules, PPTs, learning activities & exercises	4	3	5	6,000	360,000	360,000	-
Co-Ordinator Time	Supporting faculties in developing course material, coordinating with medical colleges for training program preparation	1	3	7	4,500	94,500	94,500	-
Travel cost (to & fro)	Visit to 6 medical colleges for preparatory meetings (@1 faculty and 1 co-ordinator * 6 visits)	2	6	-	2,000	24,000	24,000	-
Marketing cost	Developing flyer, brochure, social media cost	-	-	-	25,000	25,000	25,000	-
Miscellaneous cost	Printing, photocopies, participant kit including bag, pen, notepad, water bottle, certificate, etc.	210	-	-	1,000	210,000	210,000	-
Sub-Total 1						713,500	713,500	
II. Training Phase (@6 training programs * 4 days)								
Name	Description of Role/Function	Number of Persons	Number of programs	Number of days	Unit cost	Estimated Amount (INR)	Actual Expenses	Balance Amount
Faculty Time	Providing training (@2 Faculties per training workshop)	2	6	4	6,000	288,000	288,000	-
Coordinator time	Co-ordination of activities in training (@1 co-ordinator per training workshop)	1	6	4	4,500	108,000	108,000	-
Travel cost (to & fro)	Local travel to training site (2 faculty & 1 coordinator) for 6 training workshops	3	6	4	2,000	144,000	144,000	-
Refreshments cost	Includes 1 high tea and snacks; & 1 lunch (@35 participants + 2 faculties + 1 co-ordinator + 2 local coordinators)	40	6	4	250	240,000	240,000	-
Sub-Total 2						780,000	780,000	-
Sub-Total						1,493,500	1,493,500	-
Overhead charges@15%						224,025	224,025	-
Total						1,717,525	1,717,525	-
GST@18%						309,155	309,155	-
Total training cost						2,026,680	2,026,680	-

Signature
Name : Dilip Singh
Manager (Account & Finance)
Date : 13.03.2025

