

Netaji Subhas Medical College & Hospital

Amhara, Bihta, Patna - 801106, Bihar

RESEARCH METHODOLOGY WORKSHOP

Website Report

Title	From Idea to Protocol
Duration	2 Days - 07/05/2026 to 08/05/2026
Organised by	Clinical Research Ethics Committee (CREC), NSMCH, Bihta, Patna
Venue	Auditorium, Netaji Subhas Medical College & Hospital

Workshop Overview

Netaji Subhas Medical College & Hospital, Amhara, Bihta, Patna organised a two-day Research Methodology Workshop titled "**From Idea to Protocol**" from **07th May 2026 to 08th May 2026**. The workshop was organised by the Clinical Research Ethics Committee (CREC), NSMCH, Bihta, Patna, with the objective of strengthening research understanding among participants and guiding them through the complete journey from research idea generation to protocol development.

The programme focused on the fundamentals of clinical research, framing research questions, formulating objectives and hypotheses, study designs, literature search methods, scientific writing, biostatistics, data collection, research ethics, informed consent, IEC submission process, and practical protocol writing. The sessions were designed to combine expert guidance with practical group activities and feedback.

The workshop provided participants with a structured academic platform to understand how a research idea can be converted into a scientifically sound and ethically appropriate research protocol. Faculty members and resource persons guided the participants through lectures, discussions, demonstrations, and hands-on exercises.

The initiative reflected NSMCH's commitment to promoting research culture, ethical scientific practice, academic development, and evidence-based medical education.

Workshop Poster



Venue: Auditorium

Official workshop poster highlighting the title, organiser, duration and venue.

Programme Highlights

Clinical research foundation	Introduction to research practice, FINER criteria and PICO framework.
Research question and objectives	Framing research questions, developing study objectives and hypothesis formulation.
Study design and methodology	Understanding study designs, sample size concepts, data collection methods and protocol methods section.
Literature and scientific writing	PubMed basics, MeSH terms, referencing, keywords and plagiarism awareness.
Biostatistics and data handling	Types of data, common statistical tests, descriptive statistics and Excel-based data entry/simple analysis.
Ethics and IEC process	Research ethics, informed consent, CREC submission process and CTRI/BCBR registration awareness.
Protocol writing	Group activity for protocol writing followed by presentation, feedback and post-test.

Schedule Reference - Day 1

The Day 1 schedule included registration and pre-test, research question framing, protocol basics, objectives and hypothesis formulation, study design discussion, inauguration and felicitation, literature search basics, and group presentations with feedback.



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Title: From Idea to Protocol

DAY -1

Time	Topic	Speaker
9:30 - 9:45 AM	Registration & Pre-test	Organizing Team
9:45 - 10:45 AM	Introduction to Research & Framing a Question • Importance of research in clinical practice • FINER criteria • PICO framework	Prof (Dr) Sanjay Kumar (Dean), NSMCH
10:45 - 11:00 AM	Workshop 1: Framing a Research Question (PICO-based)	Prof.(Dr) Sanjay Kumar + All Internal Faculties
11:00 - 12:00 PM	How to Write a Good Title & Objectives • Characteristics of a strong title • Primary vs secondary objectives • Hypothesis formulation	Prof (Dr) Mukesh Kumar, HOD Microbiology, Sub-Dean (Admin.)
12:00 - 12:15 PM	Tea Break	
12:15 - 1:15 PM	Understanding study designs : when to observe And when to intervene	Dr Swarnima Singh Sub -Dean (A & R), Lab Director, Member Secretary, CREC.
1:15 - 1:45 PM	Inauguration & Felicitation	1:45 - 2:15 PM
1:45 - 2:45	Lunch Break	
2:15 - 2:45 PM	Workshop 2: Defining Title, Objectives & Study Design	Dr Swarnima Singh + All Internal Faculties
2:45 - 3:45 PM	Literature Search Basics • PubMed basics • Keywords & MeSH terms • Referencing & plagiarism	Dr Veena Kumari Prof.&HOD Burn & Plastic Surgery,
3:45 - 4:15 PM	Group Presentations & Feedback	All Faculties

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Day 1 schedule reference from the uploaded workshop document.

Schedule Reference - Day 2

The Day 2 sessions focused on writing materials and methods, study setting, population, inclusion and exclusion criteria, sample size fundamentals, practical sampling and data collection tools, biostatistics, data entry and simple analysis, research ethics, informed consent, IEC/CREC submission and protocol writing activity.



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DAY - 2

Time	Topic	Speaker
9:45 - 10:30 AM	Writing Materials & Methods • Study setting & population • Inclusion & exclusion criteria	Dr Shweta Jha Prof. Anatomy,
10:30 - 11:00 AM	Variable & conceptual foundation of sample size: (a) Variable (b) Concept of sample size (c) Factors affecting sample size	Dr Chakrapani kumar, SR Pharmacology
11:00-11:30AM	Practical sample size & data Collection methods/tools "How to actually do it"	Dr Rajeev kumar Neeraj SR, Pharmacology
11:30 -11:45AM	Tea Break	
11:45 -12:45 PM	Basics of Biostatistics (Applied) • Types of data • Descriptive statistics • Common tests (t-test, chi- square) • p-value & confidence interval	Dr Alok Ranjan , Asso. Professor Community Medicine AIIMS, Patna
12:45 - 1:15 PM	Workshop 3: Developing Methods Section (Sample size, variables, tools)	Dr Alok Ranjan , + All Internal Facilitators
1:15 - 2:00 PM	Lunch	
2:00 - 3:00 PM	Hands-on Excel for Research • Data entry structure • Basic formulas • Simple analysis (mean, SD, graphs)	Dr Alok Ranjan , Asso. Professor Community Medicine AIIMS, Patna
	Research Ethics /IEC/ Principles of Informed consent IEC (CREC) Submission Process CTRI/BCBR- Registration	Already covered during Foundation Day
3:00 - 4:00 PM	Workshop 4: Protocol Writing (Group Activity)	Prof (Dr) Makesh Kumar + Internal Facilitators
4:00 - 4:30 PM	Presentation of Protocols & Feedback, Post-test	All Faculties

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Day 2 schedule reference from the uploaded workshop document.

Conclusion

The Research Methodology Workshop was an important academic initiative aimed at developing research aptitude and practical protocol-writing skills among participants. By combining theory, ethics, methodology and hands-on protocol development, the workshop supported the institution's larger goal of encouraging quality research and responsible clinical practice.