

Research Methodology Workshop 04–06 August, 2025 Multidisciplinary Research Unit, SSMC, Rewa, M.P.

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Publication history: Received: August 01, 2025; Revised: September 01, 2025; Accepted: October 10, 2025

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Article DOI: 10.65365/vjmr.V1.I2.13

The Multidisciplinary Research Unit of Shyam Shah Medical College successfully organized a 3 day Research Methodology Workshop (04–06 August 2025) sponsored by the Department of Health Research, Government of India, New Delhi. The chief guest of the inaugural ceremony was Shri Rajendra Shukla, Honorable Deputy Chief Minister and Minister of Medical Education Department and the special guest was Dr. Aruna Kumar, Director Medical Education, Government of Madhya Pradesh. The Guest of Honor was Dr. Tapas Chakma, Former Scientist G, ICMR-NIRTH, Jabalpur. Workshop patrons were Dr. Jyoti Singh, Chairperson, LRAC, Dr. Sunil Agrawal, Dean, SS Medical College, and Dr. TS. Keshva Prasad, Yenepoya University, Mangaluru. Organizing chairman was Dr. Rahul Mishra Nodal Officer MDRU, organizing co-chairperson was Dr. Beenu Kushwah Singh, associate nodal officer, MDRU, and organizing secretary was Dr. Shankhpani Mahapatra, assistant. Nodal officer MDRU, managing secretary was Dr. Sanjay Pandey, Scientist-II MDRU, and managing co-secretary was Dr. Sweta Pandey, Scientist-I MDRU, SSMC Rewa (M.P.). A total of 33 faculty members from four medical colleges participated in the workshop.

1. Following Distinguished Speakers Led the Workshop

1. Dr. Tapas Chakma, Ex scientist G, ICMR-NIRTH Jabalpur
2. Dr. Atul Srivastava, Nodal Officer Cancer Registry and MRU, GMC, Bhopal
3. Dr. T.S. Keshava Prasad, ICMR-C CoE, CSBMM, Yenepoya University, Mangaluru
4. Dr. R.P. Joshi Principal Scientist, JNKVV, College of Agriculture, Rewa
5. Dr. Pushpendra Singh, Scientist F, ICMR-NIRTH, Jabalpur
6. Dr. Prashant Modi, Associate professor, CSBMM, Yenepoya University, Mangaluru
7. Dr. Benu Singh, Professor, Department of Obstetrics and Gynecology, SSMC, Rewa
8. Dr. Deepak Dwivedi, Professor, Department of Pediatrics, SSMC, Rewa
9. Dr. S.P. Mahapatra, Associate Professor, Department of Pharmacology, SSMC, Rewa
10. Dr. Lokesh Tripathi, Associate Professor, Department of Pathology, SSMC, Rewa.

2. Following Medical Colleges Participated in the Workshop

1. Netaji Subhash Chandra Bose Medical College, Jabalpur
2. Bundelkhand Medical College, Sagar
3. Gajra Raja Medical College, Gwalior
4. Gandhi Medical College, Bhopal.

3. Following Research Project Proposals were Presented in Research Methodology Workshop

1. Evaluation of non-invasive prenatal test and proteomics panel test through maternal blood and its comparisons with gold standard invasive test for diagnosis of sickle cell disease in fetus. PI: Dr. Beenu Kushwah Singh, Dept. of Obs. and Gynecology, SSMC, Rewa.
2. Development of a non-invasive saliva based proteomic panel for early detection of gastric carcinoma. PI: Dr. Karuna Jindwani, Dept. of Dentistry, SSMC, Rewa.
3. Association of pseudo genes and proteomics in maternal blood with the development of ASD in children. PI: Dr. Deepak Dwivedi, Department of Pediatrics, SSMC, Rewa.
4. Evaluation of novel biomarkers and metabolomics signature for differentiating viral and bacterial respiratory tract infection in pediatric patients: A multicentric study. PI: Dr. Robin Sharma, Dept. of Microbiology, BMC, Sagar.
5. To study efficacy of umbilical cord blood transfusion in infants and develop umbilical cord blood repairing. PI: Dr. Saurabh

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K. Patel, Dept. of Pediatrics, SSMC, Rewa.

6. AI-based application for clean fuel based interventions to reduce non-communicable disease burden in households of Rewa district (M.P.). PI: Dr. Anshuman Sharma, Dept. of Community Medicine, SSMC, Rewa.

This research methodology workshop helped participants understand how to design and conduct robust research. It also elucidated fundamentals such as qualitative versus quantitative research, sampling methods, hypothesis formulation, and data analysis techniques. This workshop also helped distinguish between different research designs and participants were taught how to outline a research project, collect and analyze data, and interpret the results. It highlighted the significance of key elements such as literature review, how to reduce errors in methodology, and increase reliability and validity of research results. The workshop helped participants to develop confidence in designing and conducting independent research. It also provided education on ethical conduct, proper data management, innovation, and original contributions in various fields. The workshop also helped in conducting effective literature search, identifying research gaps, and properly formulating research questions.



How to cite this article: Pandey SK. Research Methodology Workshop 04–06 August, 2025 Multidisciplinary Research Unit, SSMC, Rewa, M.P. Vindhya J Med Res 2025;1(2):1-2.