



Government of West Bengal  
**Institute of Postgraduate Medical Education & Research**  
**Centre of Excellence in Medical Education & Research**

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## Pharmacology

### FACULTY

Dr. Mitali Chatterjee, MBBS, MD, PhD, FASc FNA FNASc FAMS FRCP FTWAS	Professor & Head
Dr. Amal K Das MBBS MD	Professor
Dr. Suparna Chatterjee MBBS, DTMH, MD, MAMS MNASc FRCP	Professor
Dr. Avijit Hazra MBBS, MBBS MD	Professor
Dr. Nafisha Yasmin MBBS, MD	Assistant Professor
Dr. Subhrangsu Chatterjee MBBS MD (w.e.f. ??)	Assistant Professor
Dr. Debaleena Das MBBS, MD	Demonstrator

### Senior Residents

Dr. Dolon Chakraborty MD
Dr. Niladri Sekhar Dingal MD
Dr. Soumya Ray MD
Dr. Arup Ratan Mallick MD
Dr. Sayan Chatterjee MD

### Postgraduate trainees

Session 2020-23	Session 2021-2024	Session 2022-2025
Dr. Debashrita Barman MBBS	Dr. Shreya Kotal	Dr. Ritwick Mondal
Dr. Aditya Adhikary MBBS	Dr. Sukanya Das	Dr. Sayan Mallick
Dr. Arunabha Dey MBBS	Dr. Swarnendu Paul	Dr. Nadeem Chowdhury
Dr. Debjyoti Majhi MBBS	Dr. Saikat Sannigrahi	Dr. Sreya Majumder
Dr. Prithwis Mitra MBBS		

### Research scholars and non-teaching staff

Name & Qualifications	Designation
Ms. Ritika Sengupta, MSc	Research Associate (ICMR)
Ms. Aishwarya Dighal, MSc	Senior Research Fellow (UGC)
Ms. Deblina Sarkar, MSc	Senior Research Fellow (ICMR)
Ms. Shilpa Sengupta, MSc	Senior Research Fellow (CSIR)
Mr. Ayan Pradhan, MSc	Senior Research Fellow
Mr. Aniruddha Bagchi, MSc	Senior Research Fellow (ICMR)
Ms. Madhurima Roy, MSc	Senior Research Fellow (UGC)
Ms. Sutopa Roy, MSc	Junior Research Fellow
Mr. Deep Goswami, MSc	Junior Research Fellow (DBT)
Ms. Mehelana Saha, MSc	Junior Research Fellow (UGC)
Ms. Chaitali Karmakar, MSc	Junior Research Fellow (UGC)
Ms. Manjari Bhattacharjee, MPharm	Pharmacovigilance Associate (under PvPI)

### Medical Technologists (Laboratory)

Mr. Rajesh Hazra	M.T. (Lab)
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#### Other non-teaching staff

Ms. Shreyoshee Roy	Administrative Officer (DHR Costing of Health Services project)
Mr. Kanak Kumar Roy	Field staff (DHR Costing of Health Services project)
Mr. Sayan Mazumder	Field staff (DHR Costing of Health Services project)
Ms. Pramila Manna	Data entry operator, ICMR project

#### FACULTY NEWS

##### Prof. Mitali Chatterjee

- Invited by Goldman-Cecil Medicine as lead author in Chapter on Leishmaniasis.
- Awarded FTWAS, Fellow 'The World Academy of Sciences'
- Awarded JC Bose National Fellowship, Science & Engineering Research Board SERB, Dept. of Science & Technology, Govt. of India.
- Visiting Professor, Faculty of Veterinary Medicine, Univ. of Leipzig, Germany
- Invited WHO Multidisciplinary Technical Group (MTG) on Miltefosine and ocular events. October 2022.
- Served as Member, Scientific Advisory Committee, Rajendra Memorial Institute of Medical Sciences, Patna, Bihar, ICMR, Govt. of India.
- Served as Member, State Level Task Force for Kala Azar, West Bengal
- Served as Chairperson, BOOST programme, Dept. of Biotechnology, Govt. of West Bengal
- Served as Examiner for Pharmacology examination, 2nd MBBS, West Bengal Univ. of Health Sciences
- Served as MPhil/PhD examiner, Calcutta University, Jadavpur University, Jawaharlal Nehru University, Banaras Hindu University.
- Member of Institutional ethics committee of AMRI Hospital, Salt Lake, Kolkata.
- Acted as Member Secretary, later Chairperson, Institutional Animal Ethics Committee of IPGME&R, Kolkata
- Served as Member, Biosafety Committee, Indian Institute of Chemical Biology, CSIR, Kolkata.
- Served as Member, 'Review Committee for Protection of Research Risks to Humans', National Institute of Biomedical Genomics, NIBMG, Kalyani.
- Served as Member, Board of Studies, Dept. of Biotechnology, St Xaviers College, Kolkata
- Served as Member, Network Management Board, VAccine deVeLopment for complex Intracellular neglected pATHogEns (VALIDATE), Univ. of Oxford funded through Medical Research Council, UK
- Served as Member, International Advisory Group, Establishment of a Global Network for Neglected Tropical Diseases', University of Durham, UK, funded through Medical Research Council, UK
- Served as Chairperson, Visceral Leishmaniasis, Scientific Advisory Committee 'The Infectious Diseases Data Observatory (IDDO)', Centre for Tropical Medicine & Global Health, Univ. of Oxford, UK
- Served as Member, 'The Infectious Diseases Data Observatory (IDDO)' Board, Centre for Tropical Medicine & Global Health, Univ. of Oxford, UK

##### Presentations

- Invited Speaker, "Tweaking the oxidant status of Leishmania parasites, The Cytometry Society Annual meeting, Hyderabad, October 2022.
- Invited Speaker, 'Mapping the immune landscape of Indian Post Kala-azar Dermal Leishmaniasis (PKDL) Calcutta Consortium on Human Genetics (CCHuGe), Kolkata, September 2022
- Invited Speaker: Mapping the immune landscape of Indian Post Kala-azar Dermal Leishmaniasis (PKDL), World Leish 7, Cartagena, Colombia (online). August 2022
- Invited Speaker 'Key challenges and opportunities', Infectious Diseases Data Observatory, World Leish 7, Cartagena, Colombia (online). August 2022
- Invited speaker "A vaccine for Leishmaniasis". VALIDATE online meeting, April 2022.
- Invited Speaker, East Zone Advanced Level training program in Pharmacovigilance organized by Department of Pharmacology, IPGME&R, Kolkata on 8th December 2022.

##### Served on Editorial Boards

- Associate Editor: Transactions of the Royal Society of Tropical Medicine & Hygiene, UK
- Associate Editor: PLoS Neglected Tropical Diseases
- Associate Editor: Phytomedicine and Phytomedicine Plus

##### Prof. Suparna Chatterjee

Administrative and Academic assignments

- Member of the Signal Review Panel for Adverse Events following Immunization, Ministry of Health & Family Welfare, Govt of India, since November 2021.
- Member of the Sentinel Surveillance System for Adverse Events of Special Interest (SSSAESI) following Covid vaccination- Technical Advisory Group, Ministry of Health & Family Welfare, Govt of India, since June 2021.
- Member of the IPGMER AEFI following Covid vaccination monitoring committee, since Jan 2021
- Expert of the WHO International Nonproprietary Names (INN) Programme and Classification of Medical products, Geneva since August 2020.
- Member of the National AEFI Committee, Ministry of Health and Family Welfare, Govt of India
- Member of the Subject Expert Committee (SEC) for approval of new drugs, CDSCO, Govt of India.
- Member of the Subcommittee constituted by CDSCO for rationality of FDC drugs
- Member of the Signal review Panel of the Pharmacovigilance Program of India (PVPI), Govt of India.
- Coordinator of the ADR monitoring centre under PVPI at IPGMER, Kolkata.
- Coordinator of the East Zone Regional for training and manpower development of the PVPI.
- Convener of IPGMER Pharmacovigilance Committee.
- Member of the Institute Ethics Committee of Niced (ICMR institute), Kolkata, Institute of Child Health, Kolkata, AMRI Hospital, Mukundapur, Kolkata
- MD examiner and paper setter at AIIMS Patna, AIIMS Bhopal, Guwahati Medical College and West Bengal University of Health Sciences and other universities.
- MBBS examiner at AIIMS Raipur, AGMC, Agartala, West Bengal University of Health Sciences.
- MD Pharmacology Thesis Adjudicator for the West Bengal University of Health Sciences, Kolkata and 3 other universities.
- Member of Editorial Board of Indian Journal of Pharmacology
- Reviewer of several national and international journals.

#### **Guest lectures delivered and Conferences attended**

- Invited speaker at WHO AEFI Causality assessment workshop held at Kolkata, 20th and 21st December 2022.
- Invited speaker at the preconference and NEMPSCON 2022 Conference at NEGRIMS, Shillong, December 15-17th, 2022.
- Organizer and speaker of the East Zone Advanced Level training program in Pharmacovigilance organized by Department of Pharmacology, IPGME&R, Kolkata on 8th December 2022.
- Delivered Prof B.N. Das memorial Oration at IPS Odisha state Conference organized by Department of Pharmacology, Kalinga Institute of Medical Sciences Hospital, Bhubaneswar November 13th 2022.
- Invited speaker at the Skill Development Program organized by NCC PVPI- Indian Pharmacopoeia Commission, Jan, April and November 2022.
- Invited speaker at Institute of Neurosciences Kolkata on Medication safety in critical care setting on the occasion of National Pharmacovigilance Week celebration Program, 22nd. September 2022.
- Invited speaker at R.G. Kar Medical College and Hospital, Kolkata on occasion of National Pharmacovigilance Week celebration Program, September 20th. 2022.
- Invited speaker at S.C.B Medical College and Hospital, Cuttack on the occasion of National Pharmacovigilance Week celebration Program, 19th. September 2022.
- Invited speaker at the GCP training program organized by Institute of Child Health, August 25th.2022.
- Speaker at academic feast Perizia organized by IPGMER, Kolkata August, 2022
- Invited speaker at the Advanced Level training Program in Pharmacovigilance (ALT) South Zone, organized by Department of Pharmacology, KIMS and RC Chennai, May 16th, 2022
- Invited speaker at the Medication Error and its prevention at Kalinga Institute of Medical Sciences, Bhubaneswar, April 2022.
- Invited speaker at the training Program in Pharmacovigilance (ALT) organized by Department of Pharmacology, Madras medical College, Feb 10th, 2022
- Invited speaker at the Advanced Level training Program in Pharmacovigilance (ALT) West Zone, organized by Department of Clinical Pharmacology, Seth GS Medical College and KEM Hospital, Mumbai, January, 2022.

#### **Prof. Avijit Hazra**

##### **Administrative and academic assignments**

- Served as Dean of Student Affairs of IPGME&R, Kolkata.
- Served as Member Secretary, Institutional Ethics Committee, IPGME&R, Kolkata.
- Member, Institutional Ethics Committee (IEC) of IHFW, Kolkata, National Research Institute of Ayurveda for Drug Development (NRIADD), Kolkata, Peerless Hospital National Neurosciences Center Kolkata, Health Point Hospital, Kolkata and Chairperson, National Allergy Asthma & Bronchitis Institute (NAABI), Kolkata.
- Deputy Coordinator of ADR Monitoring Center (AMC) of the Government of India Pharmacovigilance Program of India (PvPI) at IPGME&R, Kolkata.

- Member, Curriculum Committee, Hostel Committee, Library Committee, Pharmacovigilance Committee and Merit cum Means Scholarship Award Committee of IPGME&R, Kolkata.
- Examiner in pharmacology for MBBS examination of the West Bengal University of Health Sciences and other universities.
- Lead faculty for the Good Clinical Practice organized by the Institute of Health & Family Welfare, Government of West Bengal.
- Guest Faculty for Diploma in Clinical Research & Regulatory Affairs course of Jadavpur University, Kolkata
- Served as statistical consultant for various departments of IPGME&R, Kolkata. Also associated with a few projects of other institutions as statistical advisor.
- Served as reviewer for Indian Journal of Medical Research, Indian Journal of Pharmacology (IJP), Indian Journal of Dermatology and Indian Journal of Dermatology Venereology Leprology. Served as Member of Editorial Board of IJP.
- MD Pharmacology Thesis Adjudicator for the West Bengal University of Health Sciences, Kolkata and 2 other universities.
- MD Pharmacology paper setter for JIPMER, Puducherry, AIIMS Rishikesh and WBUHS, Kolkata.
- Served as Member, Board of Studies (Pharmacology) for AIIMS, Bhubaneswar.
- Served as member of expert panels appointed by Government of West Bengal for inspections and purchases.
- Author and presenter of modules in the ICMR sponsored Online Prescribing Skills Course for the Indian Medical Graduate, launched on September 4th, 2020.
- Served as Secretary, Clinical Pharmacology of Indian Pharmacological Society.

#### Guest lectures and meetings attended

- Mar 15-16, 2022: Attended as Faculty National workshop on Research Methodology and IPR organized by CCRAS, Ministry of Ayush, Government of India, at Central Ayurved Research Institute, Kolkata.
- May 27-29: Attended as Faculty for multiple session, HOPECON-2022, Kolkata.
- Jul 8-9, 2022: Organizer and lead faculty for Basic Course in Biomedical Research workshop at IPGME&R, Kolkata.
- Sep 29, 2022: Lead faculty for GCP Workshop at Government Medical College, Agartala, Tripura.
- Dec 6-7, 2022: Attended workshop "WHO Tool for Benchmarking Ethics Oversight of Health-Related Research with Human Participants" organized by ICMR Bioethics Unit at Bengaluru.
- Dec 30, 2022: Organizer and lead faculty for GCP workshop at IPGME&R, Kolkata.
- Participated as faculty in several other GCP meetings and workshops in various medical colleges in West Bengal and at IHFW, Salt Lake, Kolkata.

#### **Dr. Gairik Sengupta**

- Principal Investigator of project (along with Prof. Parasar Ghosh, department of Rheumatology) titled "Role of quantitative monitoring of B cells in evaluating safety and effectiveness of Rituximab in a tertiary care hospital" currently being funded by MRU, IPGME&R, Kolkata.
- Judge for a competitive award paper session at the 65th Foundation Day celebrations of IPGME&R, Kolkata, January, 2022
- Chairperson at a scientific paper session in IPSCON, West Bengal, 2020
- Author of a module in the ICMR sponsored Online Prescribing Skills Course for the Indian Medical Graduate, September 4th, 2020
- External examiner for the 2nd prof. MBBS examination at ESIMER, Joka, RG Kar Medical College, Kolkata and Medical College, Kolkata
- Internal examiner for the 2nd prof. MBBS examination at IPGME&R, Kolkata
- Member of institutional skill lab committee of IPGME&R, Kolkata
- Member of institutional ethics committee of NAABI, Kolkata and Narayana Superspeciality Hospital, Howrah
- Carried out prescription audit in government hospitals as a part of Quality Assurance program by the Government of West Bengal
- Resource person for the National mission for Education by UGC.
- Delivered Guest lecture at ESIMER, Joka

#### **Dr. Nafisha Yasmin**

- Principal Investigator of project (along with Prof. Suparna Chatterjee and Dr. Saroj Mandal, department of Cardiology) titled "Genotype and allele frequency of CYP2C19 in ischaemic heart disease patients on clopidogrel" currently being funded by MRU, IPGME&R, Kolkata
- Completed GCP training by IPGME&R Research Oversight Committee, IPGME&R.
- Attended East Zone Advanced Level Training Programme on Pharmacovigilance
- Undergraduate girls hostel superintendent, IPGME&R.
- In-charge of Guestrooms, IPGME&R.
- In-charge UG (MBBS) Section, Office of the Dean of Student affairs, IPGME&R.
- Member of Hostel Committee, IPGME&R.
- Member of Anti-ragging Committee, IPGME&R.
- Member of Anti-Ragging Squad, IPGME&R.
- Member of Academic Council, IPGME&R.

- Appointed as Domain expert for Pharmacist Gr-III interview at West Bengal Health Recruitment Board, July-August, 2022
- Nodal officer for State Telemedicine Hub at IPGME&R and Swasthya Ingit, IPGME&R
- Verification Officer for NEET UG, NEET PG and NEET AYUSH 2022 Physical Document Verification for counseling at IPGME&R.

#### **Dr. Subhrangsu Chatterjee**

- Undergraduate boys hostel superintendent, IPGME&R
- Member of Hostel Committee, IPGME&R.
- Member of Anti-ragging Committee, IPGME&R.
- Member of Anti-Ragging Squad, IPGME&R.
- Supervisor of B.Sc Nursing classes(Pharmacology), IPGME&R
- Supervisor of B.Sc Physician assistant classes(Pharmacology) for 2022, IPGME&R
- Acted as Domain expert for Pharmacist Gr-III interview at West Bengal Health recruitment Board, July-August, 2022
- Nodal officer for State Telemedicine centre-Swasthya Ingit, IPGME&R

#### **Dr. Debaleena Das**

- Attended East Zone Advanced Level Training Programme on Pharmacovigilance
- Acted as Domain expert for Pharmacist Gr-III interview at West Bengal Health recruitment Board, July-Aug, 2022

#### **ACADEMIC ACTIVITY**

The MBBS program of the department comprising theory, practical and tutorial sessions has been running smoothly. The department also continued its usual PG teaching program comprising didactic lectures, seminars, journal clubs and practical demonstrations.

The department also undertook regular classes for BSc Nursing students of IPGME&R School of Nursing, Bachelor of Physiotherapy students of IPGME&R and students of various paramedical diploma courses posted in IPGME&R. The postgraduate medical students shared a large part of the teaching responsibility of these students.

#### **PUBLICATION BY FACULTY & RESEARCH SCHOLARS**

1. **Roy S, Roy M, Nath S, Ghosh M, Chaudhuri SJ, Mukherjee S, Chatterjee M.** Role of molecular approaches to distinguish post kala-azar dermal leishmaniasis from leprosy: a case study. *Indian J Dermatol Venereol Leprol.* 2022; doi: 10.25259/IJDVL\_415\_2022.
2. **Sarkar D, De Sarkar S, Gille L, Chatterjee M.** Ascaridole exerts the leishmanicidal activity by inhibiting parasite glycolysis. *Phytomedicine.* 2022; 103:154221. doi: 10.1016/j.phymed.2022.154221.
3. **Roy M, Sarkar D, Chatterjee M.** Quantification of amastigote specific genes for monitoring experimental Leishmaniasis. *Parasitology* 2022; 149: 1085-1093.
4. **Pradhan A, Sengupta R, Sengupta S, Chatterjee M.** Attenuation of methotrexate induced hepatotoxicity by Epigallocatechin 3-gallate. *Drug Chem Toxicol* 2022 (in press).
5. **Bagchi A, Ghosh P, Ghosh A, Chatterjee M.** Role of oxidative stress in induction of trans-differentiation of neutrophils in patients with rheumatoid arthritis. *Free Radic Res.* 2022; 56:290-302.
6. Maji UK, Ghosh TK, **Chatterjee M**, Bhattacharya S, Bank S, Jana P. Role of aspirin activated nitric oxide synthase in controlling DOCA-salt induced hypertension in rats through the stimulation of renal r-cortexin in kidney cortex cells. *Int J Health Sci (Qassim).* 2022;16:46-57.
7. Ramesh D, **Sarkar D**, Joji A, Singh M, Mohanty AK, Vijayakumar BG, **Chatterjee M**, Sriram D, Kumar MS, Kannan T. First-in-class pyrido[2,3-d]pyrimidine-2,4(1H,3H)-diones against leishmaniasis and tuberculosis: Rationale, in vitro, ex vivo studies and mechanistic insights. *Archiv der Pharmazie* 2022; 355:e2100440.
8. **Moulik S, Sengupta R**, Chaudhuri SJ, Ghosh M, Das NK, Saha B, **Chatterjee M.** Liposomal amphotericin B is more effective in polymorphic lesions of post-kala-azar dermal leishmaniasis. *Indian J Dermatol Venereol Leprol.* 2022; 88: 201-206.
9. Deepachandi B, Weerasinghe S, Soysa P, **Chatterjee M**, Siriwardana Y. Serological studies on rK39 negative visceral leishmaniasis in an endemic focus of Leishmania donovani induced cutaneous leishmaniasis. *Diag Microbiol Infect Dis* 2022 (in press).
10. Datta P, Sardar D, Sinha C, Manna A, **Chatterjee M.** Structure and cytotoxic activity of novel 2-(coumarinyl-6-azo) imidazoles. *Asian J Chem.* 2022; in press.
11. **Chatterjee S**, Bhattacharjee M, Mukhopadhyay P, Ray BK, **Hazra A**, Chatterjee S, Dubey S. Pharmacovigilance study of Amphotericin B use for mucormycosis in post-COVID and non-COVID patients at a tertiary care hospital in Eastern India. *Indian J Pharmacol* (in press accepted on 6th December 2022).

12. Rajalkar J, Jhaj R, Chandy SJ, Bright HR, Tripathy CD, Badyal D, Balakrishnan S, Medhi B, Kamat SK, Tripathy R, Dikshit H, Roy SS, **Chatterjee S**, Kaushal S, Jain S, Kaul R, Kshirsagar NA. Usage pattern of fixed dose combinations at ICMR Network of Rational use of medicine centers across India: Recommendations for policymakers and prescribers. *J Assoc Physicians India* (in press accepted on 20<sup>th</sup> October 2022)
13. **Chatterjee S**, Chakraborty DS, Choudhury S, Lahiry S. Cefiderocol: A new Antimicrobial for Complicated Urinary Tract Infection (CUTI) Caused by Carbapenem-resistant Enterobacteriaceae (CRE). *Curr Drug Res Rev.* 2022;14(1):20-23.
14. **Chatterjee S**, Choudhury S, Das D. An update of antispike severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) monoclonal antibodies. *Indian J Pharmacol.* 2022 ;54(1):51-57. doi: 10.4103/ijp.ijp\_519\_21.
15. Thakur S, **Chatterjee S**, Saha PK. Do SSRIs have any effect on cognitive function in patients of Major Depressive Disorders? *Asian J Psychiatr.* 2022 Mar; 69:102985. doi: 10.1016/j.ajp.2021.102985
16. Pal S, Sardar S, Sarkar N, Ghosh M, **Chatterjee S**. Effect of Antenatal Dexamethasone in Late Preterm Period on Neonatal Hypoglycemia: A Prospective Cohort Study from a Developing Country. *J Trop Pediatr.* 2022 3;68(2):fmac021. doi: 10.1093/tropej/fmac021.
17. **Chatterjee S**, **Hazra A**, **Chakraverty R**, Shafiq N, Pathak A, Trivedi N, Sadasivam B, Kakkar AK, Jhaj R, Kaul R, Kshirsagar N. Knowledge, attitude, and practice survey on antimicrobial use and resistance among Indian clinicians: A multicentric, cross-sectional study. *Perspect Clin Res.* 2022;13(2):99-105. doi: 10.4103/picr.PICR\_21\_20.
18. Gogoi GK, Das S, Sen C, **Hazra A**. Evaluation of mitral-aortic flow velocity integral ratio as a tool to differentiate between severe and non-severe mitral regurgitation. *J Cardiothorac Vasc Anesth* 2023; 37: 16-22.
19. Singh MP, Popli R, Brar S, Rajsekar K, Sachin O, Naik J, et al for CHSI Study Group (includes **Hazra A**) CHSI costing study - Challenges and solutions for cost data collection in private hospitals in India. *PLoS ONE* 2022; 17(12): e0276399.
20. Das NK, Nandy S, Mondal RK, Roy S, **Hazra A**. A morphometric study of anterior fontanel in eastern Indian population and its clinical correlation. *Int J Sci Tech Res Archive* 2022; 3: 165-71.
21. Gogoi GK, Das S, Sen C, **Hazra A**. Evaluation of mitral-aortic flow velocity integral ratio as a tool to differentiate between severe and nonsevere mitral regurgitation. *J Cardiothorac Vasc Anesth* 2022: S1053-0770(22)00730-3. doi: 10.1053/j.jvca.2022.10.002. [Epub ahead of print].
22. Anand T, Mukherjee A, Satija A, Velamuri PS, Singh KJ, Das M, et al for ICMR- Mucormycosis group (includes **Hazra A**). A case control investigation of COVID-19 associated mucormycosis in India. *BMC Infect Dis* 2022; 22: 856. doi: 10.1186/s12879-022-07844-y.
23. Mukherjee A, Kumar G, Turuk A, Bhalla A, Bingi TC, Bhardwaj P. et al for National Clinical Registry for Covid-19 (NCRC) Study Team (includes **Hazra A**). Vaccination saves lives: A real-time study of patients with chronic diseases and severe COVID-19 infection. *Quart J Med* 2022. 2022 Sep 2:hac202. doi: 10.1093/qjmed/hcac202. [Epub ahead of print].
24. Singh MP, Prinja S, Rajsekar K, Gedam P, Aggarwal V, Sachin O, Naik J, Agarwal A, Kumar S, Sinha S, Singh V, Patel P, Patel AC, Joshi R, **Hazra A**, Misra R, Mehrotra D, Biswal SB, Panigrahy A, Gaur KL, Pankaj JP, et al. Cost of Surgical Care at Public Sector District Hospitals in India: Implications for Universal Health Coverage and Publicly Financed Health Insurance Schemes. *Pharmacoecon Open* 2022 Jun 22:1-12. doi: 10.1007/s41669-022-00342-6. [Epub ahead of print].
25. Bikramjit B, Nargis T, Chakrabarti P, Mukhopadhyay S, Biswas K, Ganguly D, Chatterjee C, Nilanjan S, **Hazra A**. an observational study showing dipeptidyl peptidase-4 (DPP-4) activity and gene expression variation in chronic liver disease (CLD) patients from a tertiary care hospital of eastern India. *Indian J Endocrinol Metab* 2022; 26: 245-51.
26. Saha AK, Hembrom BPM, Laha B, Mitra T, **Hazra A**. Comparison of different doses of dexmedetomidine as adjuvant for infraumbilical surgery in patients receiving bupivacaine spinal anesthesia: a randomized controlled trial. *Asian J Anesthesiol* 2022; 60: 101-8.
27. Dubey S, Chatterjee S, Ghosh R, Louis ED, **Hazra A**, Sengupta S, Das S, Banerjee A, Pandit A, Ray BK, Benito-León J. Acute onset movement disorders in diabetes mellitus: A clinical series of 59 patients. *Eur J Neurol* 2022; 29: 2241-8.
28. Prinja S, Singh MP, Rajsekar K, Sachin O, Gedam P, Nagar A, CHSI Study Group [includes **Hazra A**]. et al for Using cost evidence for price setting: experience from a large national public insurance scheme of India. *SSRN Electronic Journal* as Preprint. 2022 Jan. DOI: 10.2139/ssrn.3582739.
29. Palit S, **Hazra A**, Banerjee K. Effect of rotational malalignment of components on functional outcome of total knee arthroplasty: A prospective observational study. *Int J Ortho Sci* 2022; 8: 124-31.
30. Kumar G, Mukherjee A, Sharma RK, Menon GR, Sahu D, Wig N, et al for National Clinical Registry for Covid-19 Team (includes **Hazra A**). Clinical profile of hospitalized COVID-19 patients in first & second wave of the pandemic: Insights from an Indian registry based observational study. *Ind J Med Res* 2022. [Epub ahead of print]. DOI: 10.4103/ijmr.ijmr\_1628\_21.
31. Sen B, Sarkar M, Raychaudhuri D, Pal P, Roychowdhury S, Chattopadhyay A, **Hazra A**, Mondal R. Clinical profile and outcome of pediatric inflammatory multisystem syndrome temporally associated with severe acute respiratory syndrome coronavirus 2 series in Eastern India. *Med J DY Patil Vidyapeeth* 2022 [Epub ahead of print].
32. Chakraborty DS, Kar B, Choudhury S, Ghosh A, Samanta K, **Hazra A**. Knowledge, attitude and practice survey regarding high alert medication among resident doctors in a tertiary care teaching hospital in eastern India. *Current Drug Safety* 2022; 17 [Epub ahead of print]. <https://dx.doi.org/10.2174/1574886317666220207123704>.

33. Das S, Dubey S, Das S, **Hazra A**, Pandit A, Ghosh R, Ray BK. Epidemiology of Moyamoya angiopathy in eastern India. *Frontiers Neurol* 2022; 13. doi: 10.3389/fneur.2022.837704.
34. Pal N, Nag D, Halder J, Biswas A, Ray R, **Hazra A**, Chatterjee C. Impact of vaccination on SARS-CoV-2 infection: Experience from a tertiary care hospital. *Asian Pacific J Trop Med* 2022; 15: 90-2. DOI: 10.4103/1995-7645.338430,
35. Rajashekar B, Sarkar UK, Datta D, Mondal T, Sarkar M, Sengupta T, **Hazra A**, Mondal R. Blood pressure variation with altitudes in children: a cross-sectional observational study from Himalayan hills. *J Trop Pediatr* 2022; 68(2):fmac010. doi: 10.1093/tropej/fmac010.
36. Nandy A, Mondal T, Ivan DM, Sengupta T, Das SK, Goldar D, **Hazra A**, Mondal R. Assessment of gestational age by new-born joint angles. *J Clin Neonatol* 2022; 11: 23-9.

### Theses publication, student and research scholar information

The following theses were successfully defended at the MD Pharmacology examination of the West Bengal University of Health Sciences, in 2022, leading to award of MD degree.

Name	Year	Title of dissertation	Guide/Co-Guide
Dr. Niladri S. Dingal	2019-2022	Active Safety surveillance study in pediatric patients of Childhood onset Nephrotic Syndrome on Rituximab therapy	Prof. Suparna Chatterjee
Dr. Arup R. Mallick	2019-2022	An observational study to compare the anti-anginal efficacy of Ranolazine and Nicorandil in ischemic heart disease patients attending a tertiary care hospital in Kolkata.	Dr. Gairik Sengupta
Dr. Sayan Chatterjee	2019-2022	Can quantitative monitoring of B cells evaluate the safety and efficacy of rituximab in primary CNS demyelinating disorders?	Prof. Mitali Chatterjee
Dr. Soumya Ray	2019-2022	Survey of medication error awareness and experience among physicians and nurses in tertiary care hospital settings.	Prof. Avijit Hazra

### The following dissertations are ongoing in the department:

Name	Year	Title of dissertation	Guide/Co-Guide
Dr. Debashrita Barman	2020-2023	Evaluation of in vitro anti-leishmanial activity of novel beta carboline analogs	Prof. Mitali Chatterjee
Dr. Prithwis Mitra	2020-2023	Glycaemic control and adverse effects in Type 2 diabetic patients receiving Basal-bolus insulin regimen versus Premixed insulin regimen: An observational study.	Dr. Gairik Sengupta Dr. Sattik Siddhanta Dr. Nafisha Yasmin
Dr. Arunabha Dey	2020-2023	A randomized controlled trial comparing spasmolytic efficacy of nicorandil with conventional nitroglycerin-diltiazem cocktail in preventing radial artery spasm during transradial coronary artery angiography	Prof. Avijit Hazra Dr. Pradip Saha Dr. Nafisha Yasmin Dr. Dipankar Mukherjee
Dr. Aditya Adhikari	2020-2023	Safety surveillance of miltefosine therapy in Post-Kala-azar Dermal Leishmaniasis	Prof. Mitali Chatterjee Prof. Suparna Chatterjee
Dr. Debjyoti Majhi	2020-2023	Evaluation of SARS-CoV-2 antibody titers following Covid vaccination in HIV patients on Antiretroviral therapy: An Observational study	Prof. Suparna Chatterjee Prof. Mitali Chatterjee Prof. Shantasil Pain
Dr. Shreya Kotal	2021-2024	A prospective study to assess the profile and outcome of Acute Paraquat Poisoning in a tertiary care hospital of West Bengal	Prof. Suparna Chatterjee Prof. Shantasil Pain Prof. Asim Kundu
Dr. Sukanya Das	2021-2024	A randomized controlled trial of ozenoxacin 1% versus mupirocin 2% topical application in the treatment of impetigo and other uncomplicated skin infections	Prof. Avijit Hazra Dr. Subhrangsu Chatterjee Dr. Sumit Sen
Dr. Swarnendu Paul	2021-2024	An Ex-Vivo study on the effect of Piper betle on oxidative stress in patients with systemic lupus erythematosus	Prof. Mitali Chatterjee Dr. Nafisha Yasmin Prof. Parasar Ghosh
Dr. Saikat Sannigrahi	2021-2024	Factors affecting medication adherence of schizophrenia patients in a tertiary care hospital in West Bengal: A Cross-sectional study	Dr. Gairik Sengupta Prof. Avijit Hazra Dr. Sujit Sarkhel

**Ms. Manjari Bhattacharjee** as Coordinator – Pharmacovigilance Programme, continued to do exemplary work in keeping up a regular flow of adverse drug reaction reports from IPGME&R and SSKM Hospital, Kolkata, to the

National Coordinating Centre for National Pharmacovigilance Programme, India at Indian Pharmacopoeia Commission, Ghaziabad. Reports are now being submitted and revised online.

### Research scholars are pursuing following projects

SN	Name	Guide	Topic of research	Status
1.	<b>Ms Srija Moulik</b>	Prof. Mitali Chatterjee	Identification of lesional biomarkers in Indian Leishmaniasis.	Awarded
2.	<b>Mr. Ayan Pradhan</b>	Prof. Mitali Chatterjee	Evaluation of markers of oxidative damage in Rheumatoid Arthritis.	Senior Research Fellow
3.	<b>Ms. Aishwarya Dighal</b>	Prof. Mitali Chatterjee	Evaluation of iron homeostasis in Indian leishmaniasis	Submitted
4.	<b>Ms. Ritika Sengupta</b>	Prof. Mitali Chatterjee	Evaluation of immunological responses between polymorphic and macular Indian Post Kala-azar Dermal Leishmaniasis	Submitted
5.	<b>Mr. Aniruddha Bagchi</b>	Prof. Mitali Chatterjee	Role of transdifferentiation of neutrophils into neutrophil-dendritic cell hybrids in synovial fluid of patients with Rheumatoid Arthritis	Senior Research Fellow (ICMR)
6.	<b>Ms. Deblina Sarkar</b>	Prof. Mitali Chatterjee	Study of mitochondrial bioenergetics in Indian Leishmaniasis	Senior Research Fellow (ICMR)
7.	<b>Ms. Shilpa Sengupta</b>	Prof. Mitali Chatterjee	Study of Immune Bioenergetics in diseases mediated by intramacrophagic pathogens	Senior Research Fellow (CSIR)
8.	<b>Ms. Madhurima Roy</b>	Prof. Mitali Chatterjee	Role of neutrophils in immunopathogenesis of Indian Leishmaniasis	Senior Research Fellow (UGC)
9.	<b>Ms Sutopa Roy</b>	Prof. Mitali Chatterjee	Study of genetic polymorphisms in Indian Leishmaniasis	Junior Research Fellow
10.	<b>Dr. Surya J. Chaudhuri</b>	Prof. Mitali Chatterjee	Epidemiological monitoring of the kala-azar elimination programme in West Bengal	Assoc. Prof., Sarat Chandra Chattopadhyay Govt. Medical College & Hospital, Uluberia
11.	<b>Mr. Deep Goswami</b>	Prof. Mitali Chatterjee	Study of Melanogenesis pathways in Post kala-azar Dermal Leishmaniasis	Junior Research Fellow (DBT)
12.	<b>Ms. Mehelana Saha</b>	Prof. Mitali Chatterjee	Evaluating the neutrophil polarization status in autoimmune disorder	Junior Research Fellow (UGC)
13.	<b>Ms. Chaitali Karmakar</b>	Prof. Mitali Chatterjee	Evaluation of immunomodulatory properties of endoperoxides in Indian Leishmaniasis	Junior Research Fellow (UGC)

### RESEARCH PROJECTS AND ACTIVITY

SN	Title of the project	Duration	Funding agency	Investigator
2	Longitudinal monitoring of parasite dynamics in Leishmaniasis	2021-23	DST, Govt. of India-DAAD collaborative project	Prof. Mitali Chatterjee
3	Establishment of a 'test of cure' tool for monitoring Visceral Leishmaniasis and Post kala-azar dermal Leishmaniasis; a multicentric study.	2022-2024	ICMR, Govt. of India	Prof. Mitali Chatterjee
4	A multicentric longitudinal cohort with nested case-control study for the assessment of immunological correlates of long term protection against SARS-CoV-2 infection among fully vaccinated health-care workers.	2021-24	As Co-Investigator, ICMR, Govt. of India	Prof. Mitali Chatterjee
5	Protective Immunity from T cells to Covid-19 in Health workers-PITCH study	2021 onwards	International collaboration with Prof. Susan Dunachie, Univ. of Oxford	Prof. Mitali Chatterjee
6	JC Bose Fellowship	2020-25	SERB, Dept. of Science & Technology, Govt. of India.	Prof. Mitali Chatterjee
7	Develop novel test for PKDL/Leprosy diagnosis	2022-2024	Bill & Melinda Gates Foundation, BMGF	Prof. Mitali Chatterjee
7	Rational use of Medicines.	2019-22	ICMR, Govt. of India	Prof. Suparna Chatterjee
8	Advanced Centre for Clinical Pharmacology for antibiotic stewardship and research in the field of antimicrobial usage	2018-20	ICMR, Govt. of India	Prof. Suparna Chatterjee



9	Evaluation of immunological determinants in patients of vitiligo.	2016 onwards	DST, Govt. of West Bengal	Prof. Suparna Chatterjee
10	Covid associated mucormycosis in India: a case control investigation	2022	ICMR	Prof. Avijit Hazra (Co-PI)
11	National Clinical Registry of COVID-19 (NCRC) Project	2020-23	ICMR	Prof. Avijit Hazra (Co-PI)
12	Costing of health services in India	2018 Onwards	DHR, Govt. of	Prof. Avijit Hazra (Co-PI)

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