



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

Pharmacology

FACULTY

Dr. Mitali Chatterjee, MBBS MD PhD FASc FNAsc FAMS FRCP FTWAS	Professor & Head
Dr. Amal Kanti Das, MBBS MD	Professor (From 16.09.2021)
Dr. Suparna Chatterjee, MBBS DTMH MD MAMS MNAsc FRCP	Professor
Dr. Amit Kumar Ghosh, MBBS MD	Professor (Joined 29.11.2021) *
Dr. Avijit Hazra MBBS, MBBS MD	Professor
Dr. Gairik Sengupta, MBBS, MD	Associate Professor
Dr. Nafisha Yasmin MBBS, MD	Assistant Professor
Dr. Subhrangsu Chatterjee, MBBS MD	Assistant Professor (Joined 01.12.2021)
Dr. Chaitali Sengupta, MBBS MS	Demonstrator (Till 15.11.2021)
Dr. Sarbajit Mazumder, MBBS	Demonstrator **
Dr. Debaleena Das, MBBS MD	Demonstrator
Dr. Arijit Das, MBBS	Demonstrator

* On deputation to West Bengal University of Health Sciences as Officer on Special Duty (IOC)

** On detailment to Swasthya Bhawan

Senior Residents

Dr. Saikat K. Dolui MBBS MD	Released in Aug, 2021
Dr. Rohit Kumar Nath MBBS MD	Joined in Sep, 2021
Dr. Dolon Chakraborty	Joined in Sep, 2021
Dr. Poulomi Roy Chowdhury	Joined in Sep, 2021
Dr. Priyanka Guha Thakurta	Joined in Sep, 2021
Dr. Abhijnan Ghosh	Joined in Sep, 2021
Dr. Kalyan Samanta	Joined in Sep, 2021

Postgraduate trainees

Session 2020-23	Session 2019-22	Session 2018-21 *
Dr. Debashrita Barman MBBS Dr. Aditya Adhikary MBBS Dr. Arunabha Dey MBBS Dr. Debjyoti Majhi MBBS Dr. Prithwis Mitra MBBS	Dr. Niladri Sekhar Dingal MBBS Dr. Arup Ratan Mallick MBBS Dr. Sayan Chatterjee MBBS Dr. Saumya Ray MBBS	Dr. Rohit Kumar Nath MBBS MD Dr. Dolon Chakraborty MBBS MD Dr. Poulomi Roy Chowdhury MBBS MD Dr. Priyanka Guha Thakurta MBBS MD Dr. Abhijnan Ghosh MBBS MD Dr. Kalyan Samanta MBBS MD

* Cleared University examination in 2021

Research scholars and non-teaching staff

Name & Qualifications	Designation
Ms. Aishwarya Dighal MSc	Senior Research Fellow (UGC, till August 2021)
Ms. Ritika Sengupta MSc	Senior Research Fellow (ICMR, till September 2021)

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
Ms. Madhurima Roy MSc	Junior Research Fellow (UGC)
Ms Sayanti Karmakar, MSc	Project Fellow (up to Jan 2021)
Ms Sutopa Roy MSc	Junior Research Fellow
Dr. Debarati Mukherjee PhD	Research Associate (ICMR)
Ms Susama Khatua MSc	Project Assistant (1 st September- 15 th December, 2021)
Mr. Deep Goswami MSc	Junior Research Fellow (DBT)
Ms. Manjari Bhattacharjee MPharm	Pharmacovigilance Associate (under PvPI)
Mr. Raja Chakravarty MPharm	Junior Research Fellow (ICMR, up to 4 th September 2021)

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)
Mr. Apurba Roy	Data Entry Operator (Released)
Ms. Pramila Manna	Data entry operator, ICMR project

TRANSFERS, POSTINGS AND SUPERANNUATIONS

- Prof. Amal Kanti Das joined (re-employment) as Professor on 16th September, 2021.
- Prof. Amit Ghosh joined as Professor on 29th November, 2021 and has subsequently been deputed to West Bengal University of Health Sciences as Officer on Special Duty (Inspector of Colleges).
- Dr. Chaitali Sengupta transferred to Dept. of Gynecology & Obstetrics, IPGME&R, Kolkata on 15.11.2021.
- Dr. Subhrangshu Chatterjee joined as Assistant Professor on 1st December, 2021.

FACULTY NEWS

Prof. Mitali Chatterjee

- Invited by Cecil Goldman
- Awarded FTWAS, Fellow 'The World Academy of Sciences'
- Awarded J. Ammal-National Women Bioscientist Award (Senior Category), Dept. of Biotechnology, Govt. of India
- Awarded JC Bose National Fellowship, Science & Engineering Research Board SERB, Dept. of Science & Technology, Govt. of India.
- Served as Convener, Medical & Veterinary Sciences, West Bengal Academy of Science & Technology.
- Served as Member, Sectional Committee (Medical Sciences), Indian Academy of Sciences, Bangalore.
- Served as Member, Programme Advisory Committee (PAC), Biomedical and Health Sciences, Science & Engineering Research Board SERB, Dept. of Science & Technology, Govt. of India.
- Served as Member, Intensification of Research in High Priority Areas IRPHA, Science & Engineering Research Board SERB, Dept. of Science & Technology, Govt. of India.
- Served as Member, POWER, Science & Engineering Research Board SERB, Dept. of Science & Technology, Govt. of India.
- 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, Kolkata, Jawaharlal Nehru University, Banaras Hindu University.
- Acted as Member Secretary, 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: 'Methodological challenges in measuring drug efficacy for the treatment of visceral leishmaniasis', British Society of Parasitology, June 2021
- Invited speaker: Setting the Post Elimination Agenda for Kala-Azar in India (SPEAK-India)', SPEAK India Visceral Leishmaniasis Consortium, September 2021
- Invited speaker: Shifting gears in Health Research "Women's Leadership in Science and Technology", NIT Durgapur, October 2021
- Invited speaker: 'Azadi from Kala-azar....almost there', Science Popular Lecture, NIPER, Mohali, October 2021
- Invited speaker: 'Monitoring the trans-differentiation of neutrophils' The Cytometry Society, Oct 2021
- Invited speaker: 'Immunology of Post kala-azar Dermal leishmaniasis and Cutaneous Leishmaniasis in SE Asia' Drugs for Neglected Diseases initiative, 2nd LEAP Scientific Conference, November 2021
- Invited speaker: Addressing the 'Last mile challenges' in the Kala-azar elimination programme, WHO workshop, Kolkata, December 2021
- Invited Speaker: NIBMG workshop, December 2021

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

- 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 IPGMER AEFI following Covid vaccination AEFI monitoring committee, Jan 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
- Temporary Advisor of the WHO International Nonproprietary Names (INN) Programme and Classification of Medical products, Geneva since August 2020.
- Invited expert member of the Committee for revising the National Formulary of India, Indian Pharmacopoeia Commission, Govt of India.
- 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
- Reviewer of several national and international journals.
- MD examiner and paper setter at AIIMS Bhubaneswar, 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, Editorial Board of Indian Journal of Pharmacology

Guest lectures

- Organizer and speaker of the Advanced Level training program in Pharmacovigilance organized by the East Zone Regional centre for Training and Technical Support, December 13th., 2021

- Invited speaker at The PharmaSteer Program organized by Department of Pharmacology & Therapeutics, Seth GS Medical College and KEM Hospital, Mumbai December 11th 2021.
- Invited speaker at the Advanced Level training Program in Pharmacovigilance (ALT), organized by Department of Pharmacology, BJ Medical College, Ahmedabad, 8th October, 2021.
- Guest speaker at Department of Pharmacology, BJ Medical College, Pune, October, 2021.
- Invited speaker at the Skill Development Program organized by NCC PVPI- Indian Pharmacopeia Commission, Jan 2021, April 2021 and September 2021
- Invited speaker at the NICED, Kolkata on occasion of National Pharmacovigilance Week celebration Program, 22nd September 2021
- Invited speaker at the GCP training program organized by Jadavpur University and TAAB, 8th September 2021.
- Invited speaker at the GCP training program organized by Institute of Child Health, August 4th, 2021.
- 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, 2021.

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 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, Medical Education Unit, 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 and Diploma in Clinical Research course of AMRI Hospital, 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

- Aug 26-29, 2021: Participated as delegate in Revised Basic Course Workshop in Medical Education Technology at IPGME&R, Kolkata.
- Aug 31, 2021: Faculty for online training on 'Good Clinical Practice' organized by Institutional Ethics Committee, Mahatma Gandhi Institute of Medical Sciences, Wardha, Maharashtra.
- Sep 24-25, 2021: Served as lead faculty for 'Good Clinical Practice' Workshop at College of Medicine and JNM Hospital, Kalyani.
- Oct 13, 2021: Faculty for Online Medical Paper Writing workshop organized by AMASI Association of Minimal Access Surgeons of India.
- Oct 29, 2021: Served as lead faculty for 'Good Clinical Practice' Workshop at All India Institute of Medical Sciences (AIIMS), Kalyani.
- Dec 12, 2021: Lead faculty for 47th Annual Conference Association of Clinical Biochemists of India Preconference Workshop on Statistics in Biomedical Research.
- Dec 13, 2021: Faculty at Online Advance Level Training Programme in Pharmacovigilance organized by East Zone Regional Centre for Training & Technical Support, Dept. of Pharmacology, IPGME&R.

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.
- Resource person for Research Methodology Workshop at IPGME&R, January, 2020
- Technical expert assessor for West Bengal Health Recruitment Board (WBHRB), January, 2020
- Judge for a competitive award paper session at the 65th Foundation Day celebrations of IPGME&R, Kolkata, January, 2021
- 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
- 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
- Acted as a resource person for the National mission for Education by UGC.

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
- 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.
- Completed Basic Course on Biomedical Research by ICMR-National Institute of Epidemiology (ICMR-NIE), Chennai.
- Completed GCP training by ICH, Kolkata
- Completed Revised Basic Course and Curriculum Implementation Support Programme.
- Attended workshop on Molecular Methods in Diagnostic Microbiology at BGU, NIBM.
- Attended East Zone Advanced Level Training Programme on Pharmacovigilance.

Dr. Debaleena Das

- Telemedicine duties
- Completed Biomedical Research training
- Completed GCP training by ICH, Kolkata
- Attended East Zone Advanced Level Training Programme on Pharmacovigilance

ACADEMIC ACTIVITY

The MBBS program of the department comprising theory, practical and tutorial sessions has been running as usual. The department also continued its usual PG teaching program comprising didactic lectures, seminars, journal clubs and practical demonstrations. However, since these were through online platform for most of the year there has been some disruptions and alterations of preplanned schedule and face-to-face interaction with students has been limited.

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, STUDENTS NAD RESEARCH SCHOLARS

1. **Sengupta S, Chatterjee M.** IgG3 and IL10 are effective biomarkers for monitoring therapeutic effectiveness in Post Kala-Azar Dermal Leishmaniasis. PLoS Negl Trop Dis. 2021;15:e0009906.

2. Dey NS, Senaratne S, Somaratne V, Madarasinghe NP, Seneviratne B, Forrester S, Montes de Oca M, Reis LC, Moulik S, Walrad PB, **Chatterjee M**, Goto H, Wickremasinghe R, Lagos D, Kaye PM, Ranasinghe S. Early reduction in PD-L1 expression predicts faster treatment response in human cutaneous leishmaniasis. *J Clin Invest.* 2021;131:e142765.
3. Puri M, Brar HK, Mittal N, Madan E, Srinivasan R, Rawat K, **Moulik S, Chatterjee M**, Gorthi SS, Muthuswami R, Madhubala R. Rapid diagnosis of *Leishmania* infection with a portable loop-mediated isothermal amplification device. *J Biosci.* 2021;46:92.
4. Misra S, **Bagchi A**, Sarkar A, Niyogi S, Bhattacharjee D, Chatterjee S, Mondal S, Chittopadhyay A, Saha A, Chatterjee S, Sinhamahapatra P, Chakrabarti P, **Chatterjee M**. Methotrexate and theaflavin-3,3'-di-gallate synergistically restore the balance between apoptosis and autophagy in synovial fibroblast of RA: An ex vivo approach with cultured human RA FLS. *Inflammopharmacology* 2021; 29:1427-1442.
5. **Dighal A, De Sarkar S**, Gille L, **Chatterjee M**. Can the iron content of culture media impact on the leishmanicidal effect of Artemisinin? *Free Radic Res* 2021; 55: 282-295.
6. **Mukhopadhyay K, De S, Kundu S**, Ghosh P, Chatterjee S, **Chatterjee M**. Evaluation of levels of oxidative stress as a potential biomarker in patients with rheumatoid arthritis. *J Family Med Prim Care* 2021;10:1981-1986.
7. **Lahiry S, Chatterjee M**, Chatterjee S. Impact of oral anticholinergic on insulin response to oral glucose in patients with impaired glucose tolerance. *Indian J Pharmacol* 2021; 53: 294-297.
8. Saha A, **Bagchi A**, Chatterjee S, Dutta S, Misra S, Bhattacharjee D, Chatterjee S, Mondal S, Ghosh P, **Chatterjee M**, Ghosh A. Phenotypic characterization of circulating endothelial cells induced by inflammation and oxidative stress in Ankylosing Spondylitis. *Free Radic Res.* 2021; 55: 520-532.
9. Thakar M, Saxena V, Janakiram N, Ravi V, Desai A, Singh S, Minz R, Singh A, **Chatterjee M**, Madkaikar M, Bembalkar S, Mukherjee A, Mahesh V. Reference ranges of different lymphocyte subsets in healthy Indian Children: a multi-centric study. *Indian Pediatr* 2021; 58: 424-429.
10. **Moulik S, Sengupta S, Chatterjee M**. Molecular tracking of the *Leishmania* parasite. *Front Cell Infect Microbiol* 2021;11:623437.
11. **Moulik S**, Karmakar J, Joshi S, Dube A, Mandal C, **Chatterjee M**. Status of IL-4 and IL-10 driven markers in experimental models of visceral Leishmaniasis. *Parasitol Immunol.* 2021;43:e12783.
12. Kumar P, **Chatterjee M**, Das NK. Post kala-azar dermal leishmaniasis: clinical features and differential diagnosis. *Indian J Dermatol* 2021; 66:24-33.
13. **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.* 2021; doi: 10.25259/IJDVL_338_20.
14. **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.* 2021. doi: 10.2174/2589977513666211206100749. Online ahead of print.
15. Faruqi AR, Xavier D, Kamat SK, Chandy SJ, Medhi B, Tripathi RK, Shetty YC, Raj JM, Kaushal S, Balakrishnan S, Atal S, Tripathi SK, Badyal DK, Dikshit H, Roy SS, Trivedi N, **Chatterjee S**, Desai C, Tripathi CD, Rege NN, Gupta P, Raveendran R, Kaul R, Kshirsagar NA. Safety of hydroxychloroquine in healthcare workers for COVID-19 prophylaxis. *Indian J Med Res* 2021; 153: 219-26.
16. Choudhury S, Baker MR, **Chatterjee S**, Kumar H. Botulinum toxin: An update on Pharmacology and newer products in development. *Toxins (Basel).* 2021; 14;13(1):58. doi: 10.3390/toxins13010058.
17. Dalui SK, Chakraverty R, **Yasmin N**, Pattanaik S, Pandit K, **Chatterjee S**. Effects of DPP4 inhibitors on renal outcomes in diabetes mellitus: A systematic review and meta-analysis. *Indian J Endocr Metab* 2021;25:283-92. Chatterjee S, Chakraborty R, Hazra A, Shafiq N, Pathak A, et al. Knowledge attitude and practice survey on antimicrobial use and resistance among Indian clinicians amongst clinicians: a multicentric, cross sectional study. *Perspect Clin Res* [Accepted: Manuscript number PICR_21_20].
18. Mukhopadhyay K, De S, Kundu S, Ghosh P, **Chatterjee S**, Chatterjee M. Evaluation of levels of oxidative stress as a potential biomarker in patients with rheumatoid arthritis. *J Family Med Prim Care.* 2021;10(5):1981-6.
19. **Chatterjee S, Hazra A, Chakraverty R**, Shafiq N, Pathak A, Trivedi N, Sadasivam B, Kakkar AK, Jhaj R, Kaul R, Kshirsagar N. A multicentric knowledge-attitude-practice survey in the community about antimicrobial use and resistance in India. *Trans R Soc Trop Med Hyg* 2021; 115: 785-91.
20. Panditrao AM, Shafiq N, **Chatterjee S**, Pathak A, Trivedi N, Sadasivam B, Kshirsagar N, Kaul R, Biswal M, Kakkar A, Malhotra S, Arora P, Talati S, Dhaliwal N, **Hazra A**, Jhaj R, Najmi A, Pandey N, **Chakraverty R**, Pathan S, Chauhan J, Mathur A; ASPIRE ('Antimicrobial Stewardship Programme In Resource-limited Environment') Study Group. A multicentre point prevalence survey (PPS) of antimicrobial use amongst admitted patients in tertiary care centres in India. *J Antimicrob Chemother* 2021; 76: 1094-101.
21. **Chatterjee S, Chakraverty R, Hazra A**, Shafiq N, Pathak A, et al. Knowledge attitude and practice survey on antimicrobial use and resistance among Indian clinicians amongst clinicians: a multicentric, cross sectional study. *Perspect Clin Res* [Accepted: Manuscript number PICR_21_20].
22. Patra AC, Sil A, Ahmed SS, Rahaman S, Mondal N, Roy S, Datta A, Kaliyadan F, Panda S, Setia MS, Dogra S, Khandpur S, **Hazra A**, Das NK. Effectiveness and safety of 0.5% timolol solution in the treatment of pyogenic granuloma: A randomized,

- double-blind and placebo-controlled study. Indian J Dermatol Venereol Leprol. 2021 Oct 15:1-9. doi: 10.25259/IJDVL_565_20. Epub ahead of print. PMID: 34672473.
23. Chaudhuri, J., Biswas, S., Gangopadhyay, G, Biswas T, Datta J, Biswas A, Pandit A, Datta AK, Mukherjee A, Dutta AK, Bhattacharya P, **Hazra A**. Correlation of ATP7B gene mutations with clinical phenotype and radiological features in Indian Wilson disease patients. Acta Neurol Belg (2021). <https://doi.org/10.1007/s13760-021-01816-w>. [Epub ahead of print 13 Oct 2021].
 24. Raychaudhuri D, Sarkar M, Roy A, Roy D, Datta K, Sengupta T, **Hazra A**, Mondal R. COVID-19 and co-infection in children: The Indian Perspectives. J Trop Pediatr. 2021 Aug 27;67(4):fmab073. doi: 10.1093/tropej/fmab073.
 25. Dinesh B, J CS, Kaur CP, Atiya F, Yk G, **Avijit H**, Sandhya K, Vp K, Rajani K, Nilima K, Subir M, Bikash M, Geetha M, Jaya R, Vishnu R, Yashashri S, Raakhi T, Denis X. Hydroxychloroquine for SARS CoV2 Prophylaxis in healthcare workers - a multicentric cohort study assessing effectiveness and safety. J Assoc Physicians India 2021; 69: 11-12.
 26. Munian D, Das R, **Hazra A**, Ray S. Outcome of neonates born to Covid positive women at 6 months of age. Indian Pediatr 2021 Jul 23:S097475591600354 [Epub ahead of print].
 27. Mondal R, Nandy A, Datta D, Majumdar R, **Hazra A**, Das SK. Newborn joint mechanics. J Matern Fetal Neonatal Med 2021 Aug 10:1-8. doi: 10.1080/14767058.2021.1946784. [Epub ahead of print].
 28. Nandy A, Mondal T, Datta D, Ray S, Kumar N, Ivan M, **Hazra A**, Mondal R. Serum ferritin as a diagnostic biomarker for severity of childhood sepsis. Indian Pediatr 2021; 58: 1143-6.
 29. **Hazra A**, Bhattacharyya D, Hazra AK, Sur TK. Antiradical and antiulcer effect of *Sonneratia apetala* Buch-Ham leaves against alcohol induced gastric mucosal injury. Ars Pharmaceutica 2021; 62: 348-57.
 30. Sarkar M, Pal P, Raychaudhuri D, Sen B, Roychowdhury S, Chattopadhyay A, **Hazra A**, Mondal R. PIMS-TS vs. MIS-C: Diagnostic criteria in COVID-19-associated hyperinflammation in children. Indian J Pediatr 2021; 88: 1149-50.
 31. Prinja S, Singh MP, Rajsekar K, Sachin O, Gedam P, Nagar A, Bhargava B; CHSI Study Group [including **Hazra A**]. Translating research to policy: setting provider payment rates for strategic purchasing under India's national publicly financed health insurance scheme. Appl Health Econ Health Policy 2021; 19: 353-70. Published erratum in: Appl Health Econ Health Policy 2021 May;19(3):451. doi: 10.1007/s40258-021-00645-5.
 32. Seth S, Saha B, Saha AK, Mukherjee S, **Hazra A**. Nasal HFOV versus nasal IPPV as a post-extubation respiratory support in preterm infants-a randomised controlled trial. Eur J Pediatr 2021; 180: 3151-60.
 33. Khatun M, Datta D, **Hazra A**, Ghosh P, Selim MB, Mondal R. Economic burden of juvenile idiopathic arthritis in India. Indian Pediatr 2021; 58: 38-40.
 34. Barkondaj B, Mukhopadhyay K, Das S, Chatterjee C, Mukherjee S, **Hazra A**. Information adequacy of medicine package inserts in India: A critical evaluation. Perspect Clin Res 2021; 12: 87-92.

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 2020, leading to award of MD degree.

Name	Year	Title	Guide/Co-Guide
Dr. Abhijnan Ghosh	2018-2021	A Case Control study to assess association of Thiopurine methyltransferase (TPMT) & Nudix hydrolase (NUDT15) gene polymorphisms with azathioprine induced leukopenia.	Prof. Suparna Chatterjee
Dr. Kalyan Samanta	2018-2021	Comparison of effectiveness & tolerability of vildagliptin with glimepiride as add-on therapy to metformin in diabetic patients attending a tertiary care hospital in Kolkata	Dr. Gairik Sengupta
Dr. Priyanka Guha Thakurta	2018-2021	Safety Monitoring of Rituximab Therapy in autoimmune disorders	Prof. Mitali Chatterjee
Dr. Dolon Chakraborty	2018-2021	Evaluation of information adequacy of medicine package inserts & perception of healthcare providers toward the same.	Prof. Avijit Hazra
Dr. Rohit Kumar Nath	2018-2021	Prospective observational study on the outcome of selective deprescribing in elderly patients attending medicine outdoor of a tertiary care hospital.	Prof. Avijit Hazra
Dr. Poulomi Roy Choudhury	2018-2021	A prospective observational pharmaco-economic study comparing topical vs topical cum systemic treatment of tinea infection of glabrous skin.	Prof. Avijit Hazra

The following theses are ongoing in the department

Name	Year	Title	Guide/Co-Guide
Dr. Niladri Sekhar Dingal	2019-2022	Active Safety surveillance study in pediatric patients of Childhood onset Nephrotic Syndrome on Rituximab therapy	Prof. Suparna Chatterjee

Dr. Arup Ratan 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
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	Glycemic 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. 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. Aditya Adhikari	2020-2023	Safety surveillance of miltefosine therapy in post-kala-azar dermal leishmaniasis.	Prof. Mitali Chatterjee
Dr. Debjyoti Majhi	2020-2023	Evaluation of SARS-CoV-2 antibody titers following Covid vaccination in HIV patients on antiretroviral drug therapy: An observational study.	Prof. Suparna Chatterjee

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 projects as stated below:

SN	Name	Guide	Topic of research	Status
1	Ms. Sneha Mitra	Prof. Mitali Chatterjee Prof. Suparna Chatterjee	Evaluation of redox status and immune regulation markers in vitiligo.	PhD awarded
2	Ms Srija Moulik	Prof. Mitali Chatterjee	Identification of lesional biomarkers in Indian Leishmaniasis.	Submitted
3	Mr. Ayan Pradhan	Prof. Mitali Chatterjee	Evaluation of markers of oxidative damage in rheumatoid arthritis.	Senior Research Fellow
4	Ms. Aishwarya Dighal	Prof. Mitali Chatterjee	Evaluation of iron homeostasis in Indian leishmaniasis	UGC- Senior Research Fellow
5	Ms. Ritika Sengupta	Prof. Mitali Chatterjee	Evaluation of immunological responses between polymorphic and macular Indian post kala-azar dermal leishmaniasis	ICMR- Senior Research Fellow
6	Mr. Aniruddha Bagchi	Prof. Mitali Chatterjee	Role of transdifferentiation of neutrophils into neutrophil-dendritic cell hybrids in synovial fluid of patients with Rheumatoid Arthritis	Research Fellow
7	Ms. Deblina Sarkar	Prof. Mitali Chatterjee	Study of mitochondrial bioenergetics in Indian Leishmaniasis	Senior Research Fellow (ICMR)
8	Ms. Shilpa Sengupta	Prof. Mitali Chatterjee	Study of immune bioenergetics in diseases mediated by intramacrophagic pathogens	CSIR Junior Research Fellow
9	Ms. Madhurima Roy	Prof. Mitali Chatterjee	Role of neutrophils in immunopathogenesis of Indian Leishmaniasis	UGC Junior Research Fellow
10	Dr. Debarati Mukherjee	Prof. Mitali Chatterjee	Impact of artemisinin on iron trafficking in experimental visceral Leishmaniasis	Research Associate (ICMR)
11	Ms Sutopa Roy	Prof. Mitali Chatterjee	Study of genetic polymorphisms in Indian Leishmaniasis	Junior Research Fellow
12	Dr. Surya J. Chaudhuri	Prof. Mitali Chatterjee	Epidemiological monitoring of the kala-azar elimination programme in West Bengal	Asst. Prof., Purulia Medical College.

13	Mr. Deep Goswami	Prof. Mitali Chatterjee	Study of melanogenesis pathways in post kala-azar dermal leishmaniasis	Junior Research Fellow (DBT)
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RESEARCH PROJECTS AND ACTIVITY

SN	Title of the project	Duration	Funding agency	Investigator
1	Monitoring the effectiveness of Miltefosine in Indian Post kala-azar Dermal Leishmaniasis	2021	World Health Organization	Prof. Mitali Chatterjee
2	Longitudinal monitoring of parasite dynamics in Leishmaniasis	2020-22	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.	2021-2023	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	In 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	Rational use of Medicines.	2019-22	ICMR, Govt. of India 15,50,272	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 5,60,750	Prof. Suparna Chatterjee
9	Evaluation of immunological determinants in patients of vitiligo".	2016 onwards	DST, Govt. of West Bengal 23,30,000	Prof. Suparna Chatterjee
10	Costing of Health Services in India	2018 onwards	DHR, Govt. of India	Prof. Avijit Hazra (Co-PI)
11	National Clinical Registry of COVID-19 (NCRC) Project	2020 onwards	ICMR, Govt. of India 37,00,000	Prof. Avijit Hazra (Co-PI)
12	Covid associated mucormycosis in India: a case control investigation	2021	ICMR, Govt. of India 4,68,279	Prof. Avijit Hazra (Co-PI)

SPECIAL CONTRIBUTIONS TO FIGHT AGAINST COVID-19 AND OTHER SPECIAL ACHIEVEMENTS

PGTs provided continuous support at Telemedicine centre and COVID Vaccination Center.

Prof. Mitali Chatterjee

- Research Scholars worked in VRDL Lab and supported rtPCR COVID-19 testing
- Research Scholars worked as VO4 Officers in Vaccination Centre, IPGMER
- Collaborative study with Dr. Susan Dunachie, University of Oxford, to examine T-cell correlates of protection against SARS-CoV-2.

Prof. Suparna Chatterjee

- Member, National AEFI Committee, Govt. of India, for planning AEFI and AESI strategy following COVID vaccines.
- As member of NICED IEC, continuing review of COVID vaccine trial activity.
- Coordinator of the online HCQ registry launched by Pharmacovigilance Committee of IPGMER Kolkata

Prof. Avijit Hazra

- Planning, in collaboration with concerned departments, class and exam schedule of MBBS students in the Covid scenario.
- As member Secretary, IEC, IPGME&R guiding clinical research activity modification in Covid scenario.
- Co-PI for two ICMR Covid-19 related projects in collaboration with General Medicine and Microbiology.
- Participated in COVID related research projects of various departments.

Dr. Gairik Sengupta

- Member of COVID Protocol Monitoring group of the Government of West Bengal since July, 2020
- Member of COVID Treatment Coordinating group of the Government of West Bengal since August, 2020
- Nodal officer, Telemedicine centre at IPGME&R and SSKM hospital

Dr. Nafisha Yasmin

- Nodal officer of Telemedicine centre at IPGME&R and SSKM hospital
 - Member of Task Force on Telemedicine of the Government of West Bengal
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