



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

Bangur Institute of Neurosciences
Neuromedicine (Neurology)

FACULTY

Dr. Atanu Biswas	MD, DM	Professor and Head
Dr. Biman Kanti Roy	MD, DM	Professor
Dr. Alak Pandit	MD, DM	Professor
Dr. Samar Biswas	MD, DM	Associate Professor
Dr. Arijit Roy	MD, DM	Associate Professor
Dr. Adreesh Mukherjee	MD, DM	Assistant Professor
Dr. Uma Sinharoy	MD, DM	Assistant Professor
Dr. Souvik Dubey	MD, DM	Assistant Professor
Dr. Jayanta Ghosal	MD, DM	Assistant Professor
Dr. Sumanta Sarkar	MD, DM	Assistant Professor
Dr. Suman Das	MD, DM	RMO cum Clinical tutor
Dr. Jasodhara Chaudhuri	MD, DM	RMO cum Clinical tutor
Dr. Shymapada Dan	MBBS, MD	RMO cum Clinical tutor
Dr. Amrutesh Maji	MBBS	RMO cum Clinical tutor

- *Prof. Tejendra Nath Kundu was transferred to RG Kar Medical College in August 2022
- Prof. Goutam Gangopadhyay superannuated on 30th November 2022
- Dr. Adreesh Mukherjee was transferred to NB Medical College after being promoted to Associate Professor
- Dr. Suman Das was transferred to NB Medical College after being promoted to Assistant Professor

Neurogenetic Unit

Dr. Anindita Joardar	MSc, PhD	Assistant Professor
Mr. Sarnava Roy	MSc	Research Associate

Medical officers (in Ramrikdas Harlalka Hospital, IPGMER Annex 4)

Dr. Goutam Das (MD, DM) Superspeciality Senior Medical officer

Medical officers (in Neuro Emergency)

Dr. Bijan Kumar Samajpati	MBBS	Medical Officer
Dr. Mridula Chakraborty	MBBS, DGO	Medical Officer
Dr. Malay Das	MBBS	Medical Officer
Dr. Chandan Burman	MBBS	Medical Officer
Dr. Kuhu Diwanjee	MBBS	Medical Officer

Senior Residents

Dr. SulagnaSahu	MD, DM	Senior Resident (3 rd Year)
Dr. Abhishek Chowdhury	MD, DM	Senior Resident (3 rd Year)
Dr. Swati Kumar	MD, DM	Senior Resident (3 rd Year)
Dr. Subhadeep Gupta	MD, DM	Senior Resident (2 nd Year)
Dr. AmlanKusumDatta	MD, DM	Senior Resident (2 nd Year)
Dr. Arpan Datta	MD, DM	Senior Resident (2 nd Year)
Dr. Debaleena Mukherjee	MD, DM	Senior Resident (1 st Year)
Dr. Peyalee Sarkar	MD, DM	Senior Resident (1 st Year)
Dr. Arkaprava Chakraborty	MD, DM	Senior Resident (1 st Year)
Dr. Shambaditya Das	MD, DM	Senior Resident (1 st Year)
Dr. Sougata Bhattacharya	MD, DM	Senior Resident (1 st Year)

Postdoctoral trainees (DM Neuromedicine)

3 rd year DM residents	2 nd year DM residents
Dr. Rajdeep Saha	Dr. Bhaswar Bhattacharya
Dr. Aritava Dutta	Dr. Kuntal Biswas
Dr. Manasi Das	Dr. Debarup Das
Dr. Uddalok Chakraborty	Dr. Subhadeep Mondal
Dr. Arindam Santra	Dr. Soumyazit Banerjee
Dr. Soumita Sadhukhan	Dr. KolliparaSumnath
Dr. Aishee Bhattacharya	Dr. Indu Kiran
Dr. Soumen Bhat	Dr. ChayanMondal
Dr. Sujoy Kabiraj	Dr. Shveta Gupta
Dr. Dwipayan Bhattacharya	Dr. C.V.Srirum

1st year DM Residents: Not yet appointed.

Staff in departmental research projects

Sr. No.	Name	Designation
1.	Dr. Madhushree Chakraborty	Scientist D, ICMR project
2.	Dr. Gargi Poddar	Senior Research Coordinator, ICMR project
3.	Dr. Babuji Santra	Project Coordinator, ICMR project
4.	Ms. Bidisha Bhattacharyya	Research Associate, DBT project
5.	Mrs. Ruchira Mukherjee	JRF, DBT project
6.	Ms. Suptothita Ghosh	JRF, WB-DST project
7.	Ms. Piali Chatterjee	Project Assistant, ICMR project
8.	Mr. Deepanjan Dutta	Research Assistant, ICMR project
9.	Mr. Sourav Hazra	Data Entry Operator, ICMR project
10.	Mr. Sentu Mondal	Field Worker, DBT Project
11.	Mr. Rafikul Islam Mollah	Project Assistant 1, ICMR project
12.	Mr. Swarup Sardar	Project Assistant 1, ICMR project
13.	Mr. Bangsidhar Mondal	Project Assistant 1, ICMR project

Departmental Academic activities for the year 2022

Conferences organized by Department/ Faculty

1. 2nd East Zone PDT CME was held on 7-8th May 2022.
2. Clinical case presentation on stroke
3. Neuro-immunology Symposium Kolkata 2023 was held on 15/7/22
4. Cognitive School CME – Learning beyond boundaries was held on the 16/10/22
5. CME for BIN stroke day celebration was conducted on 29/10/22
6. Annual stroke meet was held on 21/10/22
7. 35th Annual Conference of Association of Neuroscientists of Eastern India (ANEICON 2022) was organized on 25-27th November at Biswa Bangla Convention Centre

Regular academic activities

- (a) Case presentation every week
- (b) Electrophysiology class every week
- (c) Journal club twice a month
- (d) Neuro-Radiology Discussion twice a month
- (e) Grand Round every month

Other activities

- (a) Tele-Neuromedicine under Swasthya Ingit – Bangur Institute of Neurosciences, IPGME&R, SSKM Hospital has been working in collaboration with 39 spokes for management of acute Ischemic strokes. Over 250 patients have been successfully thrombolysed so far. Swasthya Ingit telemedicine itself along with Tele Brain Stroke management has been awarded in **14th FICCI Healthcare Excellence Award 2022**
- (b) Tele Brain stroke Management under Swasthya Ingit bagged GOLD under Excellence in patient safety category.
- (c) Swasthya Ingit (Tele medicine) received special Jury recognition under Excellence in service category

Research activities

Funded Research Projects

1. ICMR funded project entitled "Establishment of the Indian Stroke Clinical Trial Network (INSTRUCT)" Started since April 2017
2. ICMR funded project entitled "Fever, hyperglycemia, swallowing and hypertension management in acute stroke: A cluster randomized controlled trial (Indian Quality Improvement in stroke Care Study)" started since September 2018
3. Hamilton health sciences, Canada funded project entitled 'Endoxaban for intracranial hemorrhage survivors with atrial fibrillation (ENRICH –AF)" started since May 2021.
4. ICMR funded project entitled 'HTA of National Stroke Care Registry Programme Development of Hospital Based Stroke Registries in different Regions of India" started since September 2021.
5. ICMR funded project entitled 'Indian Multiple Sclerosis and allied Demyelinating disorder registry and research network' started since October 2021.
6. ICMR funded project entitled 'IMPETUS: Implementation of an Evaluation and Treatment Package for Uniform Stroke Care and outcomes in the Medical Colleges. An Implementation Research study' started since December 2021
7. ICMR funded project entitled "Dysregulated circulating melatonin in pathophysiological processes in Parkinson's disease (PD): A study on experimental parkinsonism in animals and in PD patient population from Eastern India" started in 2019
8. DBT funded project entitled "Dementia Science Program: Incidence/ Prevalence/ Risk analysis of Dementia and basic research thereof" started in 2018
9. ICMR funded project entitled "The long-term effects of COVID-19 on cognitive health of the survivors and its neural underpinnings" started in 2022
10. West Bengal State DST funded project entitled "Study of polymorphisms in SCN1A and SCN2A genes in patients with epilepsy in Eastern India" started in August 2022.

Research Work of Residents

Epilepsy

- A study on drug rescheduling in chronic active epilepsy in a tertiary care centre from Eastern India"-Dr. Soumen Bhat.

Dementia

- A study of cognitive assessment of patients with amyotrophic lateral sclerosis- Dr. Ajitava Datta.

Stroke

- Predictors of hemorrhagic transformation in acute ischemic stroke – an observational study in a tertiary care centre of eastern India- Dr. Uddalok Chakraborty
- Clinical presentation, demographic profile, outcome and treatment gap of large vessel stroke- a study from a tertiary care hospital in eastern India.- Dr. Rajdeep Saha

Demyelinating disorders

- A study on clinical, laboratory and radiological factors predicting responsiveness to high dose steroids in first attacks and acute relapses of primary inflammatory demyelinating disorders of central nervous system in patients admitted in a tertiary care centre- DrSoumita Sadhukhan

Miscellaneous

- A study on spectrum of clinical profile and outcome after treatment for neuro- tuberculosis in a tertiary care centre from eastern India- Dr Sujoy Kabiraj
- A study on cognitive profile of atypical Parkinson's disease patients – Dr Mansi Das
- A study on clinical, radiological & etiological spectrum of longitudinally extensive transverse myelitis (LETM) in a tertiary care hospital , Eastern India- Dr Arindam Santra
- A study on spectrum of sexual dysfunction in patients of Parkinson's disease- Dr Dwaipayan Bhattacharya
- Distinguishing Guillain Barre syndrome from acute onset chronic inflammatory demyelinating polyneuropathy by clinical electrophysiological and nerve ultrasound parameters: a prospective follow up study- Dr. Aishe Bhattacharyya

Accolades for Residents

1. Dr. Shambyaditya Das received the Research Scholarship 2022 from The Moyamoya Friends Association Germany for his project on "Moyamoya Angiopathy: A prospective study from Eastern India" with a financial support of €600 with additional €200 for research material.
2. Dr. Dwaipayan Bhattacharyya received B.C. Roy Gold Medal award for best paper in 35th Annual Conference of Association of Neuroscientists of Eastern India (ANEICON 2022) in November 2022
3. Dr. Uddalok Chakraborty received Best E-poster Award in 35th Annual Conference of Association of Neuroscientists of Eastern India (ANEICON 2022) in November 2022
4. Dr. Uddalok Chakraborty received Best Case Report award in MIRCIM, held at Krakow, Poland in September 2022

FACULTY NEWS

Prof. Atanu Biswas

- Participated in MDSICON 2021-2022 (Annual Conference of Movement Disorders Society of India) held at the St. Regis Hotel, Mumbai from 13th to 15th May 2022 and delivered a lecture entitled "Cognition in Parkinsonism" in the scientific session
- Moderated an Online Session of Public Awareness Program on Memory Dysfunction as part of World Brain Week celebrated by Indian Academy of Neurology on 28th July 2022
- External Examiner of DM (Neurology) Examination of ABVIMS and Dr. RML Hospital under GSS University, New Delhi on 31.08.22 and 01.09.22
- Invited to serve in the Selection Committee meeting for faculty promotions under Assessment Promotion Scheme (APS) for the year 2022 of National Institute of Mental Health * & Neurosciences (NIMHANS), Bengaluru
- Participated AOCN IANCON 2022 (Asia-Oceania Neurological Conference and Annual Conference of Indian Academy of Neurology) held from 2nd November - 6th November 2022 at New Delhi, India and presented a paper entitled "Preventing Dementia: Where do we stand" in the Symposium on Prevention of Dementia.
- Organized (Organizing Secretary) 35th Annual Conference of Association of Neuroscientists of Eastern India (ANEICON 2022) between 25th and 27th November 2022 at Biswa Bangla Convention Center, New Town Kolkata

Prof. Biman Kanti Ray

- Published a Book Entitled "Bedside Neurology: Clinical Approach". Ray BK (Ed.). 2022. Publisher: Jaypee Brothers Medical Publishers (P) Ltd. New Delhi.
- Participated AOCN IANCON 2022 (Asia-Oceania Neurological Conference and Annual Conference of Indian Academy of Neurology) held from 2nd November - 6th November 2022 at New Delhi, India and presented a paper
- Organized (Chairman, Scientific Committee) 35th Annual Conference of Association of Neuroscientists of Eastern India (ANEICON 2022) between 25th and 27th November 2022 at Biswa Bangla Convention Center, New Town Kolkata

Dr. Suman Das

- Presentations at National Conferences

- A case series of Epileptic Encephalopathies in infants and Children : Study of clinic-Electroencephalographic Spectrum in a Tertiary care hospital in India – oral (platform) Presentation at ECON 2022.
- Barriers in stroke Care Pathway on the way to a Tertiary Care Centre. A Hospital –based study from Eastern India- poster presentation at ACON –IANCON 2022.

Dr. Dabaleena Mukherjee

- Participated and won first prize on IPGME&R Annual Day Research presentation (10/3/22) for DM category
- Participated and won first prize in MDSI Forum Kolkata meet, video case presentation (11/3/22)
- 2nd East Zone PDT CME 2022 participated and presented case in neuromuscular session.
- Participated in NESSAN EEG e-course Workshop 2022

Dr. Jasodhara Chaudhuri

- Faculty at National PEDICON in the Neurology session held at Noida in March 2022.
- Faculty at East Zone NEUROPEDICON held at Orissa in August 2022
- Faculty at National Task Force meeting for Wilson's Disease in childhood.
- Faculty at Regional awareness meet for Spinal Muscular atrophy.
- Faculty in Neurology session in first Asian ADOLESCON 2022 held in Kolkata.
- Faculty at West Bengal PEDICON 2022 in the Neurological and Developmental session.
- Faculty at National Conference on Pediatric Neurodevelopmental disorders held at Biswa Bangla Convention Centre on September 2022.
- Faculty at Pediatric Neuroophthalmology workshop at ANEICON 2022

Dr. Uddalok Chakraborty

- Awarded Best Case Report Contest, MIRCIM, Krakow, Poland Sept. 2022-12-17
- Delivered a lecture in GERICON-API WB Annual Conference 2022-12-17
- Presented a paper in IANCON 2022 Nov 2022
- Presented an E-Poster in ANEICON 2022 Nov 2022

PUBLICATIONS FROM THE DEPARTMENT

1. Mukherjee A, Biswas A. CSF P-tau 231 as biomarker of Alzheimer's disease. (Editorial Commentary) *Ann Ind Acad Neuro* 2022; 25(6): 995-996. DOI: 10.4103/aian.aian_858_22
2. Chakraborty A, Mukherjee A, Sarkar S, Sinharoy U, Biswas A. Evaluation of Non-Motor Symptoms in Wilson Disease Using the Parkinson's Disease Nonmotor Symptoms Questionnaire: A Pilot Cross-Sectional Study and Critical Assessment. *Ann Ind Acad Neuro* 2022; 25(6): 1062-66. DOI: 10.4103/aian.aian_1040_21
3. Chakraborty M, Bhattacharya K, Chatterjee G, Biswas A, Ghoshal M. Pragmatic deficits in patients with schizophrenia and right hemisphere damage: A pilot study. *Int J Lang Commun Disord* 2022 <https://doi.org/10.1111/1460-6984.12778>
4. Biswas A. The health of the nation in 2100 – The hope and despair (Editorial). *Ann Med Sc Res* 2022; 1(2): 51-53. DOI: [10.4103/amsr.amsr_37_22](https://doi.org/10.4103/amsr.amsr_37_22)
5. Chakraborty AP, Mukherjee A, Bhattacharyya A, Bhattacharyya D, Ray BK, Biswas A. Gait apraxia with exaggerated upper limb movements as presentation of AARS2 related leukoencephalopathy. *Tremor and Other Hyperkinetic Movements* 2022; 12(1): 24. DOI: [http://doi.org/10.5334/tohm.705](https://doi.org/10.5334/tohm.705)
6. Kukkle PL, Geetha TS, Chaudhary R, Sathirapongsasuti JF, Goyal V, Kandadai RM, Kumar H, Borgohain R, Mukherjee A, Oliver M, Sunil M, Mootor MFE, Kapil S, Mandloi N, Wadia PM, Yadav R, Desai S, Kumar N, Biswas A, Pal PK, Muthane UB, Das SK, Sakthivel Murugan SM, Peterson AS, Stawiski EW, Seshagiri S, Gupta R, Ramprasad VL, Prai PRAOI. Genome-Wide Polygenic Score Predicts Large Number of High Risk Individuals in Monogenic Undiagnosed Young Onset Parkinson's Disease Patients from India. *Adv Biol (Weinh)*. 2022 Nov;6(11):e2101326. doi: 10.1002/adbi.202101326. Epub 2022 Jul 10. PMID: 35810474.
7. Bhattacharyya B, Mukherjee R, Mukherjee A, Das G, Dogra AK, Das S, Biswas A. Adaptation and Validation of Addenbrooke's Cognitive Examination-III in Bengali for Screening MCI and Dementia. *Arch Clin Neuropsychol*. 2022 Oct 19;37(7):1619-1627. doi: 10.1093/arclin/acac041. PMID: 35780304.
8. Bhat A, Biswas A. Cognitive Profile of Large-Vessel Vascular Dementia-An Observational Study from a Tertiary Care Center in Kolkata. *J Neurosci Rural Pract* 2022;13(3):411-416. Published 2022 May 13. doi:10.1055/s-0042-1744467
9. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, Biswas A. Delineating caregiver distress and health condition of dementia sufferers during lockdown due to COVID-19 pandemic. *Ann Med Sc Res* 2022; 1(1): 19-24.
10. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, Biswas A. Health status of persons with dementia and caregivers' burden during the second wave of COVID-19 pandemic: an Indian study. *Dement Neuropsychol* (Published online on 03 June 2022) <https://doi.org/10.1590/1980-5764-DN-2021-0100>
11. Sadhukhan D, Biswas A, Biswas A, Ray K, Ray J. Genetic polymorphisms in *DRD4* and risk for Parkinson's disease among eastern Indians. *Neurol India* 2022; 70: 729-32. DOI: 10.4103/0028-3886.344670

12. Gupta S, Biswas A, Chandra A, Ray BK, Dutta A, Pandit A. Post-varicella neurological complications: a preliminary observation from a tertiary care centre of Eastern India. *Ann Indian Acad Neurol* 2022; 25: 207-13. DOI: [10.4103/aian.aian_270_21](https://doi.org/10.4103/aian.aian_270_21)
13. Banerjee S, Mukherjee A, Bhattacharyya B, Mohanakumar KP, Biswas A. Quality of life and concerns of Parkinson's disease patients and their caregivers during COVID-19 pandemic: An Indian study. *Ann Ind Acad Neurol* 2022; 25(4): 676-82. DOI: [10.4103/aian.aian_905_21](https://doi.org/10.4103/aian.aian_905_21)
14. Chowdhury A, Datta AK, Biswas S, Biswas A. Parakinesia Brachialis Ositans – a rare post-stroke phenomenon. *Tremor and Other Hyperkinetic Movements* 2022; 12(1): 6. DOI: <http://doi.org/10.5334/tohm.680>
15. GBD 2019 Ageing Collaborators. Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. *BMJ*. 2022;376:e068208. Published 2022 Mar 10. doi:10.1136/bmj-2021-068208
16. Mukherjee R, Bhattacharyya B, Mukherjee A, Das G, Das S, Biswas A. Burden and Health Condition of Dementia Patients during Lockdown due to COVID-19 Pandemic. *Ann Ind Acad Neurol* 2022; 25(2): 235-38. DOI: [10.4103/aian.aian_439_21](https://doi.org/10.4103/aian.aian_439_21)
17. Bhat A, Das D, Mukherjee A, Mukherjee D, Gangopadhyay G, Biswas A. Comparative study of risk factors and cognitive profile of small- and large-vessel vascular dementia – a clinic based study. *Neurol India* 2022; 70:258-63. DOI: [10.4103/0028-3886.338653](https://doi.org/10.4103/0028-3886.338653)
18. GBD 2019 Dementia Forecasting Collaborators. Estimation of the global prevalence of dementia in 2019 and forecasted prevalence in 2050: an analysis for the Global Burden of Disease Study 2019. *Lancet Public Health*. 2022;7(2):e105-e125. doi:10.1016/S2468-2667(21)00249-8
19. Bhattacharyya B, Mukherjee R, Chakraborty A, Mukherjee A, Das G, Biswas A. An online survey on stress, anxiety, and depression in terminal batch students of 2020 during lockdown due to COVID-19 pandemic. *Medical Journal of Dr D Y Patil Vidyapeeth* 15(7) DOI: [10.4103/mjdrdypu.mjdrdypu_715_21](https://doi.org/10.4103/mjdrdypu.mjdrdypu_715_21)
20. Das S, Ray BK, Chakraborty U, Kabiraj S. Disseminated Staphylococcal Disease Complicated with Intracranial Internal Carotid Artery Mycotic Pseudoaneurysm and Cerebral Infarcts – A Rare presentation in a Malnourished child. *J PediatrNeurol* 2022. DOI [http://doi.org/10.1055/s-0042-1751248](https://doi.org/10.1055/s-0042-1751248).
21. Das S, Ray BK, Chakraborty U, Kabiraj S. A Novel Variation of the Short-Chain Enoyl-coa Hydrates -1 Gene Presenting with a Novel Mild Phenotype : The second case report from India. *J PediatrNeurol* 2022. Doi <https://doi.org/10.1055/s-0042-1751248>.
22. Das S, Ray BK, Chakraborty U, Sinharoy U, Biswas A. Adreocorticotrophic hormone- induced Dyskinesia and Probable Sudden unexpected Death in an infant with Early Infantile Development and Epileptic Encephalopathy – Infantile Epileptic Spasm Syndrome Overlap. *J PediatrNeurol* 2022. DO <https://doi.org/10.1055/s-0042-175196>
23. Das S, ray B.K , Chakraborty U & Kabiraj S(2022). Disseminated staphylococcal disease complicated with intracranial internal carotid artery mycotic Pseudoaneurysm and cerebral infarcts – a rare presentation in a malnourished child. *Journal of Pediatric Neurology*. Doi : [10.1055/s-0042-1751321](https://doi.org/10.1055/s-0042-1751321)
25. Das S, Ray B.K , Chakraborty U, Kabiraj S (2022). A novel variation of the short –chain enoy-COA hydrates -1 gene presenting with a novel mild phenotype. The doi : [10.1055/s-0042-1751248](https://doi.org/10.1055/s-0042-1751248)
26. Dubey, S, Dubey MJ, Ghosh R, Mukherjee D, Pandit A. A behavioural and psychological symptoms in neurodegenerative dementias: harbinger, follower or constant collateral ? *Egypt J Neurol Psychiatry Neurosurg* 58,102(2022). <https://doi.org/10.1186/s41983-022-00538-x>
27. Mukherjee D, Dubey S, Pandit A. Electrophysiological study in Myositis: A primer for clinicians with special reference to EMG patterns. In book : *Inflammatory myositis*, April 2022.
28. Mukharjee D, Mukherjee A, Bhattacharya S, Chakraborty A, Pandit A. Clinico –radiological evolution of CNS tuberculosis presenting as Parkinsonism –predominant movement disorder. *Acta Neurol Belg*.2022 Feb 25. Doi : [10.1007/s13760-022-01906-3](https://doi.org/10.1007/s13760-022-01906-3) Epub ahead of print. PMID: 35217996.
29. Mukherjee D, Mukherjee A, Gupta S, Pandit A. Dubey S. Higher order visual dysfunction and myoclonic –atonic seizure: an atypical presentation of CLN6 neuronal ceroid lipofuscinosis *BMJ case Reports* CP 2022;15:e247790
30. Mukherjee D, Mukherjee A, Gupta S, Pandit A. (MICU1) gene–related myopathy with extrapyramidal signs: a clinic–radiological case report from India. *Annals of Indian Academy of Neurology* . Nov 2022(Accepted)
31. Gupta S, Chakraborty U, Chandra A, et al. Spectrum of Neurological Illnesses in Pregnancy - An Observational Study from a Tertiary Care Centre of Eastern India. *J Assoc Physicians India*. 2022;70(5):11-12. May 2022.
32. Datta AK, Chakraborty U, Kumar S, Chandra A. Immunopathogenesis of spondyloarthropathies – Concept of major histocompatibility locus-I-opathy. *Indian J Rheumatol* 2021;16:422-426. Oct 2021.
33. Gupta S, Dutta A, Chakraborty U, Kumar R, Das D, Ray BK. Post-COVID-19 HSV encephalitis: a review. *QJM*. 2022 Apr 20;115(4):222-227. doi: [10.1093/qjmed/hcac060](https://doi.org/10.1093/qjmed/hcac060). PMID: 35199176; PMCID: PMC9383498.
34. Chakraborty U, Hati A, Chandra A. Covid-19 associated Guillain-Barré syndrome: A series of a relatively uncommon neurological complication. *Diabetes Metab Syndr*. 2021;15(6):102326. doi:10.1016/j.dsx.2021.102326. Oct 2021
35. Chakraborty U, Ghosh S, Datta AK, Chandra A. Recurrent ataxia and dysarthria in myelin oligodendrocyte glycoprotein antibody-associated disorder. *BMJ Case Rep*. 2021;14(11):e245341. Published 2021 Nov 12. doi:10.1136/bcr-2021-245341
36. Choudhary V, Chandra A, Ray AK, Chakraborty U, Karmakar PS, Saha SK. A Case of Systemic Lupus Erythematosus without Antiphospholipid Syndrome Causing Superior Vena Cava Syndrome. *Oman Med J*. 2021 Nov 17;36(6):e317. doi: [10.5001/omj.2021.40](https://doi.org/10.5001/omj.2021.40). PMID: 34804599; PMCID: PMC8596387.
37. Sil A, Chakraborty U, Chandra A, Biswas SK. COVID-19 associated symmetrical peripheral gangrene: A case series. *Diabetes Metab Syndr*. 2022 Jan;16(1):102356. doi: [10.1016/j.dsx.2021.102356](https://doi.org/10.1016/j.dsx.2021.102356). Epub 2021 Nov 27. PMID: 34920197; PMCID: PMC8626894.
38. Hajra, K., Chakraborty, U., Chatterjee, K., Chandra, A. and Halder, S. (2022), Multisystem inflammatory syndrome in adults (MIS-A): a new addition to COVID-19 puzzle. *J Eur Acad Dermatol. Venereol*, 36: e182-e185. <https://doi.org/10.1111/jdv.17841> Nov 2021.

39. Biswas U, Chandra A, Das SK, Chakraborty U, Ghosh S. Acute hepatitis as a presenting feature of secondary syphilis. *J R Coll Physicians Edinb.* 2021;51(4):382-383. doi:10.4997/JRCPE.2021.415. Dec 21.
40. Chakraborty U, Hati A, Chandra A. Classical hand and foot deformities in rheumatoid arthritis. *QJM.* 2022;115(2):107-108. doi:10.1093/qjmed/hcab316. Dec 2021.
41. COVID-19 associated Guillain-Barré syndrome: A series of a relatively uncommon neurological complication, Diabetes & Metabolic Syndrome: Clinical Research & Reviews, Volume 16, Issue 1, 2022, 102370, ISSN 1871-4021, doi.org/10.1016/j.dsx.2021.102370. Dec 2021.
42. Chakraborty U, Hajra K, Chandra A. Classical neurocutaneous manifestations of tuberous sclerosis complex. *QJM.* 2022;115(2):115-116. doi:10.1093/qjmed/hcab332
43. Datta AK, Chakraborty U, Chandra A, Chaudhuri J. Essential palatal tremor. *BMJ Case Rep.* 2022;15(1):e248139. Published 2022 Jan 17. doi:10.1136/bcr-2021-248139
44. Chakraborty U, Bhat S, Bhattacharyya A, Sadhukhan S, Chandra A, Ray BK. Parry-Romberg Syndrome with Intracranial Calcification. *Am J Med.* 2022;135(4):e90-e91. doi:10.1016/j.amjmed.2022.01.014. Jan 2022.
45. Impact of COVID-19 on Postgraduate Residency Curriculum of Internal Medicine and Allied Specialities : Outcomes from A Webbased Cross-sectional Study from India. *JIMA.* Jan 2022.
46. Datta AK, Chakraborty U, Chandra A. The thalamic hand: an enigmatic sequela of thalamic stroke. *QJM.* 2022;115(4):239-240. doi:10.1093/qjmed/hcac050. Feb 2022
47. Chakraborty U, Dutta A, Ghosal J, Ray BK. Facial diplegia with hyperreflexia: a rare variant of Guillain-Barré syndrome [published online ahead of print, 2022 Mar 4]. *Acta Neurol Belg.* 2022;10.1007/s13760-022-01913-4. doi:10.1007/s13760-022-01913-4. Feb 2022
48. Hajra K, Chakraborty U, Chatterjee K, Mukherjee S, Halder S. Oral Histoplasmosis Presenting as a Solitary Ulcer on Tongue in an Immunocompetent Adult. *Am J Med.* 2022;135(7):e212-e213. doi:10.1016/j.amjmed.2022.02.020. Mar 2022
49. Radiological illusion of longitudinally extensive myelitis in multiple sclerosis, Neuroimmunology Reports, Volume 2, 2022, 100088, ISSN 2667-257X, <https://doi.org/10.1016/j.nerep.2022.100088>. Mar 2022
50. Clinical Images. *Bengal Physician Journal.* April 2022
51. Chakraborty U, Santra A, Pandit A, Dubey S, Chandra A. Space occupying lesion presenting as Millard-Gubler syndrome. *BMJ Case Rep.* 2022;15(4):e248590. Published 2022 Apr 12. doi:10.1136/bcr-2021-248590. April 2022.
52. Mandal S, K, Chandra A, Ganguly J, Chakraborty U: Toxoplasma Lymphadenopathy in an Immunocompetent Host. *Dubai Med J* 2022;5:223-226. doi: 10.1159/000524126. April 2022.
53. Gupta S, Chakraborty U, Chandra A, et al. Spectrum of Neurological Illnesses in Pregnancy - An Observational Study from a Tertiary Care Centre of Eastern India. *J Assoc Physicians India.* 2022;70(5):11-12. May 2022.
54. Das S, et al. "Disseminated Staphylococcal Disease Complicated with Intracranial Internal Carotid Artery Mycotic Pseudoaneurysm and Cerebral Infarcts—a Rare Presentation in a Malnourished Child." *Journal of Pediatric Neurology*, 2022, <https://doi.org/10.1055/s-0042-1751321>. June 2022
55. Hati A, Chakraborty U, Chandra A, Biswas P. Hypokalaemia with Guillain-Barré syndrome: a diagnostic and therapeutic challenge. *BMJ Case Rep.* 2022;15(6):e249473. Published 2022 Jun 27. doi:10.1136/bcr-2022-249473. Jun 2022
56. Gupta S, Dutta A, Chakraborty U, Ray BK, Das D, Kumar R. Spontaneous Resolution of a Lenticulostriate Artery Aneurysm. *Ann Indian Acad Neurol.* 2022 Jul-Aug;25(4):711-712. doi: 10.4103/aian.aian_141_22. Epub 2022 Jul 14. PMID: 36211185; PMCID: PMC9540930. July 2022.
57. Deb Chakraborty R, Chakraborty S, Chandra A, Kusum Datta A, Chakraborty U, Basu S. Bickerstaff encephalitis: An uncommon sequelae of a bacterial infection. *J R Coll Physicians Edinb.* 2022;52(3):253-255. doi:10.1177/14782715221113052. July 2022
58. Chandra A, et al. "Dengue and Scrub Typhus Coinfection: A Diagnostic Dilemma." *Oman Medical Journal*, 2022, <https://doi.org/10.5001/omj.2023.28>. July 2022.
59. Das S, et al. "A Novel Variation of the Short-Chain Enoyl-CoA Hydratase-1 Gene Presenting with a Novel Mild Phenotype: The Second Case Report from India." *Journal of Pediatric Neurology*, 2022, <https://doi.org/10.1055/s-0042-1751248>. Aug 2022
60. Datta AK, et al. "Adult Onset Subacute Sclerosing Panencephalitis Presenting with Acute Ischemic Stroke." *Neurology Asia*, vol. 27, no. 3, 2022, pp. 777–782., <https://doi.org/10.54029/2022erz>. Sep 2022
61. Dutta A, et al. "Cerebral Venous Thrombosis as the Sole Presenting Manifestation of Human Immunodeficiency Virus and Hepatitis B Virus Co-Infection." *Medical Research Archives*, vol. 10, no. 10, 2022, <https://doi.org/10.18103/mra.v10i10.3197>. Sep. 2022
62. Das S, et al. "Adrenocorticotrophic Hormone-Induced Dyskinesia and Probable Sudden Unexpected Death in an Infant with Early Infantile Developmental and Epileptic Encephalopathy—Infantile Epileptic Spasm Syndrome Overlap." *Journal of Pediatric Neurology*, 2022, <https://doi.org/10.1055/s-0042-1757196>. Oct 2022
63. Multisystem Inflammatory Syndrome in Adults : The New Mask on an Old .JIMA. Oct 2022
64. Shambaditya Das, Souvik Dubey, Suman Das, Avijit Hazra, Alak Pandit, Ritwik Ghosh, Biman Kanti Ray. Epidemiology of Moyamoya Angiopathy in Eastern India; *Frontiers in Neurology*; 10.3389/fneur.2022.837704; Shambaditya Das, Souvik Dubey, Suman Das, Avijit Hazra, Alak Pandit, Ritwik Ghosh, Biman Kanti Ray
65. Souvik Dubey, Mahua Jana Dubey, Ritwik Ghosh, Alex J Mitchell, Subhankar Chatterjee, Shambaditya Das, Alak Pandit, Biman Kanti Ray, Gautam Das, Julian Benito-Leon. The cognitive basis of psychosocial impact in COVID-19 pandemic. Does it encircle the default mode network of the brain? A pragmatic proposal; *Medical Research Archives*; 10.18103/mra.v10i3.2707;
66. Shambaditya Das, Biman Kanti Ray, Ritwik Ghosh, Souvik Dubey. "Asymptomatic" Moyamoya Angiopathy: Is it Truly Asymptomatic?; *Journal of Stroke and Cerebrovascular diseases*; 10.1016/j.jstrokecerebrovasdis.2022.106432;
67. Souvik Dubey, Subhankar Chatterjee, Ritwik Ghosh, Elan D Louis, Avijit Hazra, Samya Sengupta, Shambaditya Das, Abhirup Banerjee, Alak Pandit, Biman Kanti Ray, Julian Benito-Leon. Acute onset movement disorders in diabetes mellitus: A clinical

- series of 59 patients; European journal of neurology; 10.1111/ene.15353;
68. Shambaditya Das, Biman Kanti Ray, Alak Pandit, Swati Kumar, Souvik Dubey. Multiple sclerosis and Moyamoyaangiopathy: Mimic and misdiagnosis; Multiple Sclerosis and Related Disorders; 10.1016/j.msard.2022.104036;
 69. Shambaditya Das, Biman Kanti Ray, Arka Prava Chakraborty, Abhirup Banerjee, Alak Pandit, Gautam Das, Souvik Dubey. Persistent "MRI-Negative" Lupus myelitis- disease presentation, immunological profile and outcome; Frontiers in Neurology; 10.3389/fneur.2022.968322;
 70. Shambaditya Das, Biman Kanti Ray, Alak Pandit, Ritwik Ghosh, Arka Prava Chakraborty, Souvik Dubey. Thalassaemia and Moyamoya Syndrome: Epidemiology and long-term outcome; European journal of paediatric neurology; 10.1016/j.ejpn.2022.10.002;

Book Chapters

1. CNS Demyelination: MOG Antibody disease. API Medicine Update 2022. Jan 2022.
2. Autonomic Neuropathy. Pitfalls in diagnosis and management. API Medicine Update 2022. Jan 2022.
3. Biswas A. Pitfalls in Neuropsychological Testing in Adults with Suspected Dementias. *In: Pitfalls in The Diagnosis of Neurological Disorders*. Chakravorty A (Ed.). 2022. Publisher: Jaypee Brothers Medical Publishers (P) Ltd. New Delhi.
4. Das G, Biswas A. Clinical and Radiological Pitfalls in the Diagnosis of Dementias. *In: Pitfalls in The Diagnosis of Neurological Disorders*. Chakravorty A (Ed.). 2022. Publisher: Jaypee Brothers Medical Publishers (P) Ltd. New Delhi.

SERVICE INFORMATION

Out-patient Service

Month/Year	New Male patient	New Female patient	New total	Old Male patient	Old Female patient	Old total	OPD total	Count old patient (collection made)
November 2021	7067	6525	13592	1009	949	1958	15550	1
December 2021	6998	6869	13862	1167	1067	2234	16101	2
January 2022	5608	5258	10866	947	870	1817	12683	1
February 2022	6646	6404	13050	911	827	1738	14788	2
March 2022	8547	8151	16698	525	524	1049	17747	1
April 2021	7330	6033	13363	452	361	813	14176	0
May 2022	8640	7972	16612	480	460	940	16849	0
June 2022	9509	8828	18337	500	520	1020	19357	0
July 2022	9124	8519	17643	520	480	1000	18643	0
August 2022	9838	9330	19168	490	510	1000	20168	0
September 2022	9657	9263	18920	470	500	970	19890	0
October 2022	7866	7335	15201	510	470	980	16181	0
November 2022	9759	9360	19119	500	480	980	20099	0

In-patient Service

Total Admission-(Male- 1004 & Female- 816)

- | | | |
|---------------------------------|-------------------------------|-------------------------------------|
| 1. Stroke- 851 | 6. Demyelination- 92 | 11. AHC disorder- 25 |
| 2. Metabolic encephalopathy-102 | 7. Spinal cord disease- 58 | 12. Epilepsy-64 |
| 3. Degenerative dementia- 38 | 8. Neuromuscular junction-16 | 13. Optic neuritis- 63 |
| 4. Movement disorder- 88 | 9. Peripheral neuropathy- 169 | 14. Multiple cranial nerve palsy-15 |
| 5. Infections- 152 | 10. Muscle disease- 20 | 15. Miscellaneous- 67 |

RAMRIKDAS HARALALKA HOSPITAL ADMISSION STATISTICS DEC-2021 TO Nov-2022

MONTH	ADMISSION	DISCHARGE	DEATH	DORB	LAMA	TRAN SFER IN	TRANS FER OUT	CENSUS AT MIDNIGHT	BED OCCUPIED/ DAY	SWASTHY SATHI
DEC-21	154	90	58	3		3	8	2025	68.54	8
JAN-22	137	70	49	12	4		4	1656	53.41	14
FEB-22	118	68	37	2		6	10	1896	67.71	20
MAR-22	126	94	22	2	1	1	4	2114	68.19	13
APR-22	140	85	43	5	2	4	8	2029	67.63	10
MAY-22	145	83	44	2	5	4	12	2120	68.38	10

JUN-22	148	87	36	4	2	3	22	2036	67.86	12
JUL-22	164	97	46	1	1	6	25	2088	67.35	11
AUG-22	160	99	40	1	3	8	24	2121	68.41	07
SEP-22	129	84	31	0	3	8	16	2062	68.73	05
OCT-22	118	79	41	0	3	13	07	2127	68.61	10
NOV-22	150	74	46	0	4	4	29	2047	68.23	

Special Clinic Performance in the period: November 2021 – October 2022

Clinic	Consultant in charge	New	Old
EPILEPSY CLINIC	Prof. Alak Pandit	158	1415
MOVEMENT DISORDER CLINIC	Prof. Atanu Biswas	176	809
NEURO GENETICS CLINIC	Dr. Uma Sinharoy	101	210
STROKE CLINIC	Prof. Biman Kanti Ray	113	381
COGNITIVE CLINIC	Prof. Atanu Biswas	77	348
NEURO MUSCULAR CLINIC	Prof. Alak Pandit	81	401
HEADACHE CLINIC	Prof. Alak Pandit	20	52
BOTULINUM TOXIN CLINIC	Dr. Samar Biswas	138	738
NEURO IMMUNOLOGY CLINIC	Prof. Biman Kanti Ray	86	44
PAEDIATRIC CLINIC	Dr. Jasodhara Choudhuri	26	44

Electrophysiology Laboratory Performance for the period November 2021- October 2022

	EEG	NCV	EMG	VEP/BERA	VIDEO EEG	RNST	BLINK REFLEX
November 2021	486	780	208	468	11	25	5
December 2021	558	810	210	456	14	23	4
January 2022	443	823	179	459	12	31	3
February 2022	498	817	183	513	18	27	6
March 2022	572	843	218	486	21	19	3
April 2022	585	831	223	407	13	27	9
May 2022	647	807	167	366	19	29	2
June 2022	869	837	229	475	23	37	4
July 2022	866	814	184	414	19	25	3
August 2022	809	782	192	389	18	19	4
September 2022	612	716	167	320	15	13	2
October 2022	447	612	138	307	11	17	1

Performance of Cath-Lab between December 2021 and November 2022

- Total diagnostic DSA performed: 134
- Total therapeutic endovascular procedures done: 54
- Total aneurysm coiling: 24
- Total AVM embolization sessions: 15
- Mechanical thrombectomy: 5
- Intra and extra cranial stenting: 10
- Difficult procedures performed: Vertebral CTO stenting, Rescue stenting in acute stroke, Multiple pial fistula embolization, Cerebellar AVM embolization

Report of NEUROGENETIC UNIT of BIN from November 2021 to October 2022

- Number of patients (including new patients as well as patients who came for review) in the Genetic Clinic – 319
- Number of patients for whom the following diagnostic tests were done in the Genetic Laboratory in the above said time – 110

The following tests were conducted routinely in the Neurogenetic laboratory

MUSCLE DISEASES	MOVEMENT DISORDERS
Duchene's Muscular Dystrophy	Huntington's Disease
Becker's Muscular Dystrophy	Autosomal Dominant Ataxia; SCA1, SCA2, SCA3, SCA6, SCA8, SCA12, DRPLA
Myotonic Dystrophy-I	Autosomal Recessive Ataxia: Friedreich's Ataxia
Spinal Muscular Atrophy	

Genetic Counselling of 319 patients were done. It is conducted for the adult patients, their family members and to guardians in case of minors regarding their marriage, conceiving another issue, psychological assistance, affection of their children etc.; depending upon the pattern of inheritance – Autosomal Dominant, Autosomal Recessive, X-linked or mitochondrial inheritance.

Publications from Neurogenetic Unit:

- Roy S, Joardar A, Roy S, Choudhury S, Ghosh S, Ghosh S. Brain-derived neurotrophic factor (BDNF) val66met polymorphism influences clinical and neurocognitive outcomes in patients with mild to moderate traumatic brain injury. International Journal of Medical and Health Research ,Volume 7, Issue 12,2021,37-41.
- Chatterjee A, Gangopadhyay G, Patra S, Roy S, Das SK, Joardar A. Apolipoprotein E gene polymorphism in relation to stroke in a tertiary care urban setup in Kolkata, West Bengal. International journal of Molecular Biotechnology, Volume 7, Issue 2. 2021, DOI : 10.37628/IJMB
- Saha S, Joardar A, Roy S, Mondal T, Gangopadhyay G, Haldar D, Das H. Serum Creatine Kinase and other Profile of Duchenne Muscular Dystrophy and Becker Muscular Dystrophy: A cross-sectional Survey in a Tertiary Care Institution at Kolkata. CHRISMED Journal of Health and research 8:175-81

Ongoing projects of Neurogenetic Unit:

- Study of polymorphisms in SCN1A and SCN2A genes in patients with epilepsy in Eastern India. Three year WB-DST funded project with a budget of Rs 8,20,000.00; Project started from August 2022

Report of PHYSIOTHERAPY UNIT of BIN

Total No of Patients in Physiotherapy Unit, BIN from November 2021-October 2022

Month	OPD	Indoor (Neuromedicine)	Indoor (Neurosurgery)	ICU + HDU
Nov -21	544	468	312	286
Dec -21	513	500	350	275
Jan -22	334	425	225	275
Feb -22	478	546	312	286
Mar -22	607	468	286	286
Apr-22	470	450	125	275
May -22	588	598	364	286
June -22	646	520	208	286
July -22	506	442	234	286
Aug -22	549	460	276	253
Sep -22	547	468	156	286
Oct-22	456	425	119	275
