

Bangur Institute of Neurosciences Neurology (Neuromedicine)

Teachers and medical officers

Dr. Shyamal Kumar Das	MD, DM	Professor & Head
Dr. Goutam Gangopadhyay	MD, DM	Professor
Dr. Tejendra Narayan Kundu	MD, DM	Professor
Dr. Atanu Biswas	MD, DM	Associate Professor
Dr. Alak Pandit	MD, DM	Associate Professor
Dr. Arijit Roy	MD, DM	Assistant Professor
Dr. Deb Sankar Guin	MD, DNB (Med), DM	Assistant Professor
Dr. Sankar Prasad Nath	MD, DM	Assistant Professor
Neurogenetic unit		
Dr. Anindita Joardar	MSc, PhD	Assistant Professor
Mr Sarnava Roy	MSc	Research Associate
Medical officers (in Neuro emergency)		
Dr. Bijan Kumar Samajpati	MBBS	Medical Officer
Dr. Mridula Chakarborty	MBBS, DGO	Medical Officer
Dr. Sikha Roy	MBBS	Medical Officer
Dr. Anjana Mukherjee	MBBS	Medical Officer
Dr. Manas Kumar Sinha	MBBS, DGO	Medical Officer
Dr. Malay Das	MBBS	Medical Officer
Dr. Chandan Burman	MBBS	Medical Officer
Dr. Kuhu Diwanjee	MBBS	Medical Officer
Dr. Rina Mukherjee	MBBS	Medical Officer

Postdoctoral trainees (DM Neuromedicine) – Seven students per year

1st year DM Residents	2nd year DM Residents	3rd year DM Residents
Dr Subhdeep Banerjee	Dr. Dinesh Saini	Dr. Adreesh Mukharjee
Dr Jayanta Ghosal	Dr. Anurag Satpati	Dr. Barun Sen
Dr Apratim Chatterjee	Dr. Anjan Debnath	Dr. Debsadhan Biswas
Dr Sulagna Sahu	Dr. Anand Choudhari	Dr. Bhushan Joshi
Dr Mrinal Acharya	Dr. Sweety Tribedi	Dr. Ujjawal Roy
Dr Partha Ghorai	Dr. Urmila Das	Dr. Susanta Das
Dr Sumanta Sarkar	Dr. Kaushik Pan	Dr. Zakir Hossai

Senior Resident

- Dr. Satish Lahoti

CURRENT RESEARCH WORK

- **Epilepsy**
 - Evaluation of headache disorders in idiopathic epilepsy
 - Predictors of outcome in newly diagnosed epilepsy patients-a prospective study
- **Dementia**
 - A study on the caregiver burden of dementia in a tertiary care hospital with special reference to the correlation between caregiver burden and types and stages of dementia and behavioral and psychological symptoms of dementia
 - Comparison of frontal lobe behaviour in patient of cortical (bvFTD)/v/s subcortical (PDD) dementia with emphasis on significant discriminating symptomology
- **Stroke**
 - Comparison of Clinico-radiological Profile of Posterior Circulation Strokes with anterior circulation stroke -

- Study from a Tertiary Care Centre in Eastern India
- Spontaneous IVH: clinical feature and etiological profile with special reference to DSA
- **Neuromuscular**
 - A study on clinical profile of Hirayama disease in a tertiary care hospital of Eastern India
 - Phrenic nerve conduction study in early stage of GB syndrome as a predictor of respiratory failure
 - Chronic polyneuropathy-clinical spectrum and etiological profile in tertiary care hospital
- **Movement Disorders**
 - The study of pulmonary function testing in the form of spirometric changes in idiopathic Parkinson Disease patients
 - Comparative study of clinical profile of young onset and adult onset Parkinson's Disease
- **Neurogenetics**
 - Clinical features of Huntington Disease and correlation of clinical features with genetic study in a tertiary care centre in Eastern India
 - Phenotypic and genotypic correlation of BMD
- **CNS Infections/Inflammations**
 - Meningoencephalitis clinical features and etiological profile
- **Collaborative work with the National Biogenomics Institute**

SERVICE INFORMATION

Attendance at OPD

	NEW	OLD
JAN	5113	3840
FEB	7005	6130
MAR	7988	6845
APR	7797	6437
MAY	9249	7110
JUN	8886	6940
JUL	8597	6350
AUG	9427	7535
SEPT	10506	8464
OCT	9077	7223
NOV	8572	6288
TOTAL	92217	73162

Emergency Department (Neuroemergency)

	Attendance	Admitted
April-September 2015	15527	2479 (15.9%)

In-patient

Total admission- 2176

- **Stroke**- 921 (42.38 %)
- **Metabolic Encephalopathy**- 44 (2.02%)
- **Metabolic**- Acquired- 27 (1.24%) Congenital- 5 (0.22%)
- **Wilson Disease**- 19 (0.87%)
- **Degenerative Dementia**- Alzheimer Disease- 3(0.14%) Others-41(1.88%)
- **Movement Disorder**- Parkinsonism- 43 (1.97%) Others- 39 (1.79%)
- **Infection Brain**-
 - Acute- 97 (4.46%)
 - Chronic- Tuberculosis 82 (3.76%) Fungal 2 (0.09%) Slow virus 1 (0.05%)
- **Demyelination**- Primary 32 (1.47%) Secondary 29 (1.33%)
- **Spinal Cord disease**- Acute 68 (3.12%) Chronic 30 (1.37%)
- **Neuromuscular**- 73 (3.35%)
- **Peripheral Neuropathy**- Acute 129 (5.92%) Chronic 69 (3.17%)
- **Muscle Disease**- 37 (1.7%)

- Seizure- 193 (8.86%)
- Optic Neuritis- 67 (3.07%)
- Orbital apex/ multiple cranial nerve- 36 (1.69%)
- SSPE (Subacute sclerosing panencephalitis)- 32 (1.47 %)

Special Clinics

Clinic	New	Old
Dementia	69	226
Epilepsy	107	1527
Headache	38	90
Genetic	95	302
Stroke	47	354
Movement Disorder	88	753
Botulinum toxin	99	399
Paediatrics	37	153
Neuromuscular	48	306
Total	628	4110

Total patients seen in special clinic: 4738

Electrophysiology laboratory performance in 2015

- EEG=6432
- EMG/NCV: 7560
- VEP/BAER: 3576
- VIDEO EEG : 252
- Polysomnogram (SG): 96
- PORTABLE EEG(SSKM/BIN INDOOR [ITU,ICU,CCU,NICU]):288

Report of Neurogenetic Unit, Neurology Dept. from December 2014 to November 2015

Number of patients who attended the genetic clinic – 512

Number of patients for whom the following diagnostic tests were done in the genetic laboratory:

Muscle Diseases
Duchene's Muscular Dystrophy – 131
Becker's Muscular Dystrophy – 53
Myotonic Dystrophy-I – 34
Spinal Muscular Atrophy – 24
Movement Disorders
Huntington's Disease – 43
Autosomal Dominant Ataxia; SCA1, SCA2, SCA3, SCA6, SCA12, DRPLA – 167
Autosomal Recessive Ataxia; Friedreich's Ataxia – 42

Genetic Counseling is done to the adult patients, their family members and to guardians in case of minors regarding their marriage, conceiving another issue, affectionation of their children etc. depending upon the pattern of genetic inheritance such as autosomal dominant, autosomal recessive, X-linked or mitochondrial inheritance.

Projects running in the Neurogenetic Unit funded by State DST

1. Assessing the prevalence of genetic risk factors-APOE and IL-6-G174C polymorphism in Alzheimer related dementia patients of Eastern India.
Three year project with a budget of Rs. 16,58,800.00; second year running.
2. Study on APO E allele in mild to moderate Head Injury in Eastern India.
Two year project with a budget of Rs. 5,36,800.00; second year running.

Abstract Presentation

- Sarnava Roy, Anindita Joardar, Deb Sankar Guin, Goutam Ganguly. (2015). Deletional mutation analysis of SMN I gene for spinal muscular atrophy in West Bengal. Pedigen, 2015, Indian Academy of Pune branch on 13th Feb-15th Feb, 2015.

Publications

- Genetic study and clinical profile of DMD patients in neurology tertiary care centre in eastern India. Sadanand Dey, A. K. Senapati, A. Pandit, A. Biswas, D. guin, A. Joardar, S. Roy, G. Ganguly Indian Pediatrics, 2015, Vol. 52, 481-484.
- SCA6 in eastern India: Some new observation. Debabrata Pulai, Deb Shankar Guin, Kalyan B Bhattacharyya, Goutam Ganguly, Anindita Joardar, Sarnava Roy, Atanu Biswas, Alak Pandit, Arijit Roy, Asit Kumar Senapati. Ann Indian Acad Neurol., 2015. Accepted.

ACADEMIC ACTIVITIES

- Weekly regular case presentation, seminar, journal clubs, monthly statistical meeting (auditing of death cases) are carried throughout the year.
- All third year residents participated in annual conference of Indian academy of Neurology held at Agra, UP in October,2015 and presented papers.
- All second year residents participated in annual conference of Eastern regional conference of neuroscientist of Eastern India held at Siliguri, WB in November ,2015 and presented papers.
- The departments organized two seminars on stroke and EEG.
- For the first time, a new agent recombinant tissue plasminogen activator(r-TPA) have been injected in subjects with occlusive stroke in government hospital In WB and the patients have got excellent benefit and we plan to extend this pilot experience to help may other patients who visit our neuroemergency in future .

FURTHER NEED

We have applied to authorities for a dedicated ward for neurology patients at IPGMER/SSKM hospital for better patient care service in view of large number of admissible patients in neuroemergency.
