

## Department of Pediatric Neurology

01 January 2022 to 31 December 2022



### Name of the Faculties

Sl. No	Name	Designation
01	Prof. Dr. Narayan Chandra Saha	Professor & Head
02	Prof. Dr. Ariful Islam	Professor
03	Dr. Bithi Debnath	Associate professor
04	Dr. Yamin Shahriar Chowdhury	Assistant professor
05	Dr. Nazmul Haque	Assistant professor
06	Dr. Mohammad Monir Hossain	Assistant professor
07	Dr. Banita Mistry	Assistant professor
08	Dr. Mst. Shamim Ara Begum	Assistant professor
09	Dr. Hosne Ara Khan	Junior Consultant
10	Dr. Jobaida Parvin	Junior Consultant
11	Dr. Shamsun Nahar Sumi	Junior Consultant
12	Dr. Shyamal Sarker	Junior Consultant
13	Dr. Mohua Chandra	Junior Consultant
14	Dr. Sufia Khatun	Junior Consultant
15	Dr. Nusrat Shams	Junior Consultant
16	Dr. Farzana Rashid	Junior Consultant
17	Dr. Sharmin Hossain	Junior Consultant
18	Dr. Tasnuba Atique	Registrar
19	Dr. Snigdha Kundu	Assistant Registrar
20	Dr. Ahmed Hossain	Medical Officer
21	Dr. Sarah Alam	Medical Officer
22	Dr. Sanjana Sonam	Medical Officer
23	Dr. Jannatul Fredaus	Medical Officer

## **Activities of the Department**

1. Out Patient Department (OPD) Service
2. Inpatient department Service
3. Research Activity –IME project
4. Evening Specialist Service
5. Neurodevelopmental (ASD/ADHD) Clinic.
6. Epilepsy Clinic.
7. Headache Clinic.
8. Movement Disorder Clinic.
9. Cerebral Palsy Clinic.
10. Psychological Assessment Division
11. Academic Activities
  - Journal club/Case report presentation
  - Seminar/Clinical meeting
  - Participation in the central presentation of Journal club, neuroanatomy and clinical meeting
  - Teaching session with post graduate students of Pediatrics and Pediatric neurology

## **Out Patient Department (OPD) Service**

- Duration of OPD patient care (In hours per week) – 39 hours
- Number of patients attending the OPD per day – 180-200/day
- Everyday complicated and referred patients are seen by senior faculties

## **Achievement: Department of Paediatric Neurology**

1. 1<sup>st</sup> time gene therapy in Bangladesh in SMA(Zolgensma)
2. Disease Modifying therapy in SMA(Risdiplam)
3. Introduction of screening tests for neurometabolic disorders: A nationwide facility-based study for determination of prevalence of inborn errors of metabolism among high-risk neonates and children in Bangladesh.

## Disease profile of the OPD patients (n=29733)

(From 01 January 2022 to 31 December 2022)

Disease	Frequency	Percentage (%)
Epilepsy	10523	35.40
Febrile Seizure	221	0.74
Headache	4957	16.67
Developmental Delay	603	2.03
Neurometabolic Disorder	832	2.80
Neuro Degenerative Disorder	249	0.83
Cerebral Palsy	2949	9.91
CNS Infection	1312	4.41
Movement Disorder	459	1.54
Myopathy	192	0.64
Neuromuscular Disorder	754	2.53
Neural Tube Defect	157	0.52
NEAD/Somatoform Disorder	143	0.48
Neurocutaneous Syndrome	183	0.61
Flaccid Paraparesis (GBS, TM)	127	0.42
Intellectual Disability	1324	4.45
ASD	886	2.98
ADHD	1025	3.44
ICSOL	176	0.60
Syndromic Child	85	0.28
Cranial Nerve Palsy	56	0.18
Stroke	478	1.60
Achondroplasia	45	0.15
Hydrocephalous	353	1.18
Non-Neurological Disease	1188	3.9
Others	456	1.53
Total Patient	29733	100%

### Indoor Services

- Total number of Nonpaying beds -16
- Number of paying loan beds – on demand
- Number of Cabins – on demand
- Number of ICU & HDU beds- on demand

### **Annual Statement of the indoor patients**

**(From 01.01.2022- 31.12.2022)**

Total admitted patient	794
Male	503
Female	291
Under 5 years Child	337
Discharge With advice	712
DOR	20
DORB	25
Referred /Transferred	15
Death	22

### **Disease profile of the IPD patients (n = 794)**

**(From 01 January 2022 to 31 December 2022)**

<b>Disease</b>	<b>Frequency</b>	<b>Percentage (%)</b>
Auto Immune Encephalitis	29	3.65
Cerebral Palsy (CP)	65	8.18
Wilson Disease	13	1.63
Stroke	43	5.41
Epilepsy	215	27.07
NEAD/Somatoform	16	2.01
NMO-SD	24	3.02
ADEM	12	1.51
ICSOL	27	3.40
IIH	19	2.39
Achondroplasia	09	1.13
TBM	21	2.64
ASS	19	2.39
ATM	13	1.64
GBS	40	5.04
TOF	11	1.38
Somatoform	08	1.01
Developmental Delay	09	1.13
SSPE	48	6.05
Brain Abscess	14	1.76
Meningo-Encephalitis	16	2.02
Post Encephalitis Sequelae	07	0.88
Meningitis	47	5.92
Cong. Heart Disease	06	0.76
Conversion disorder	04	0.50
Moya Moya Disease	13	1.64
Others	46	5.79

### Academic activities

- **Departmental:** Clinical Reasons/ Case Report Presentation every Saturday  
Journal Club/Case report presentation – every Monday  
Classes facilitated by faculty members – every Wednesday
- **Central:**  
Participation in the central presentation of Journal club, neuroanatomy and clinical meeting  
Teaching session with post graduate students of Pediatrics and Pediatric neurology  
Research works and publications

### Research Projects / Theses conducted in the department

Sl.No	Name of Researcher	Name of Project/Theses
1	Principle Investigator: Prof.Dr. Narayan Saha Co-investigator: Asso.Prof.Dr. Bithi debnath Asst.Prof. Dr. Nazmul Haque	Introduction of Screening tests for neurometabolic disorders A nationwide facility based study for determination of prevalence of inborn errors of metabolism among high risk neonates and children in Bangladesh
2	Dr. Rumi Maidul Hasan	Efficacy and safety of oral melatonin for preventing recurrence of simple febrile seizure in comparison to oral diazepam an RCT
3	Dr.Anisur Rashid	Short term neurocognitive and behavioral outcome of acute CNS Infection in children in a tertiary neurology hospital
4	Dr.Tithi islam	Comparing the efficacy of melatonin and amitriptyline in childhood migraine prophylaxis
5	Dr. Fauzia Nahid	Efficacy of oral methyl phenidate and risperidone in treatment of attention deficit hyperactivity disorder: a randomized controlled trial
6	Dr. Romana Akter (Happy)	Efficacy of glycopyrronium bromide in comparison to trihexyphenidyl to reduce drooling in children with cerebral palsy a randomized controlled trial
7	Dr. Masiur Rahman	Assessment of quality of life in children with epilepsy from a tertiary care Hospital in Bangladesh
8	Dr. Laisha Yasmin	Association of Headache with screen viewing time among school children
9	Dr. Humayun Shahed	Efficacy of pregabalin in focal epilepsy in children
10	Dr. Sanjana Sonam	Efficacy of pulse methyl prednisolone compared to high dose oral prednisolone in treatment of west syndrome
11	Dr. Kamrun Nahar	Assessment of quality of life of CP children in a tertiary care hospital
12	Dr. Snigdha Kundu	Risk factors for the severity of GBS and predictors of short form outcome in children with GBS
13	Dr. Tasnuba Atique	Predictors for drug resistant epilepsy in children under 5 years of age
14	Dr. Saira Khan	Stigmata of Epilepsy score in children

### Research Article published by faculty member

Title	Journal	Issue No	Year

### Deficiencies:

1. Absence of a Child Development Centre (CDC)
2. Insufficient spaces in the Outpatient department
3. Emergency management corner/bed in Ward/ IPD
4. Insufficient bed in Inpatient department
5. Dietary management cheater for epilepsy

### Recommendations:

1. To increase the manpower of the department for providing better healthcare and academic activities.
2. To increase the number of nonpaying beds for expanding the indoor services.
3. To establish new unit.
4. To establish Childhood Epilepsy Unit, Neuro Immunology Unit, Pediatric Stroke Unit, Neonatal Neurology Unit, Pediatric Movement Disorder Unit, Neuro Infectious Unit, Neuro Metabolic Unit, Neuro Muscular Pediatric ICU Unit, Pediatric Neuro Intervention Unit, Pediatric Neurophysiology Unit.
5. Investigation of Antibodies for Demyelinating Disease and SSPE
6. Qualitative Amino acid stimulation in Blood/CSF/Urine
7. Neuro genetic laboratory
8. Establishing facility for managing Emergency Neuro paediatric Patients.