

Department of Neurosurgery
Dhaka Medical College and Hospital

Departmental Information (2022-2024)

Introduction of Neurosurgery Department I

Neurosurgery department of Dhaka Medical College was launched under supervision of legendary Neurosurgeon of Bangladesh Late Professor Dr. Ata Alahi Khan (1939-2016) in 28/04/1975 who established this department after returning from UK.

This Neurosurgery department is now one of the most committed and acute department of Dhaka Medical College Hospital (DMCH) where patient's load is nearly unbearable. This tremendous task is accomplished by a team of skilled, dedicated and laborious surgeons, residents, nurses and other employees of this department. This is a matter of joy to announce that some new posts for the sub-specialities in Neurosurgery such as Clinical/General Neurosurgery, Neuro-trauma, Paediatric Neurosurgery, Endovascular Neurosurgery, Neurospine and Skull-base Neurosurgery have been created which will start their respective works very soon. Neurointervention is going on smoothly with our modern "Biplane Neuro-cath Lab" facilities since 16th July, 2020.

No doubt, the highest bulk of both head and spinal injured patients as well as patients with different routine neurosurgical cases of Bangladesh are getting continuous treatment with utmost sincerity and success in the Neurosurgery department of Dhaka Medical College Hospital for the last couple of decades. Being a major department of this medical college, we are involved both in academic and clinical activities tremendously. It is a great pleasure that the neurosurgeons being trained from this institute are capable of managing all the difficult neurosurgical cases with success.

Establishment Year: 1975 (28/04/1975)

Number of Unit: 4 (Four) at present, but Clinical/General Neurosurgery, Neuro-trauma, Paediatric Neurosurgery, Endovascular Neurosurgery, Neurospine and Skull-base Neurosurgery units are going to be started since January, 2022.

1. Organogram of Neurosurgery Department

There are six (6) sub-specialities in Neurosurgery as follows:

- Clinical / General Neurosurgery
- Endovascular & Stroke Surgery (Neurosurgery)
- Skull-Base Neurosurgery
- Pediatric Neurosurgery
- Neurospine Surgery (Neurosurgery)
- Neurotrauma Surgery (Neurosurgery)

2. Present Members of the Neurosurgery Department

Designation	Number
Professor	02
Associate Professor	07
Assistant Professor	06
Residential Surgeon	02
Registrar	08
Assistant Registrar	07
Indoor Medical Officer	06
MO (OPD)	02
MS (Neurosurgery) Phase-A Residents	31
MS (Neurosurgery) Phase-B Residents	34

3. List of Faculty Members

Decembar-2024

SI	Name	Designation	Mobile No.	Educational Qualification	Email
01	Prof. Dr. Md. Shafiqul Islam	Professor & Head, Department. of Neurosurgery	01715-367843	MBBS, MS, PhD	islamms@yahoo.com
02	Prof. Dr. Fazle Elahy Milad	Professor & Unit Chief of NSU-Blue (Neurospine Surgery)	01715-862860	MBBS, MS	fazle.elahy68@gmail.com
03	Assoc. Prof. Dr. Md. Zahid Raihan	Professor & Unit Chief of NSU-Red Neurospine Surgery	01714-098920	MBBS, MS	zahid_ns@yahoo.com
04	Assoc. Prof. Dr. Khaled Ahmedur Rahman	Associate Professor	01716-946688	MBBS, MS	khaled.rahman@gmail.com
05	Assoc. Prof. Dr. Md. Mashiur Rahman Majumder	Associate Professor	01715-003459	MBBS, FCPS, MS	mashiurdrns@gmail.com
06	Assoc. Prof. Dr. Md. A. F. M Momtazul Haque	Associate Professor	01819-406068	MBBS, MS	mhaqneuro@gmail.com
07	Assoc. Prof. Dr. Kanij Fatema Ishrat Zahan (Rifat)	Associate Professor & Head Dept. of Pediatric Urology	01815-419671	MBBS, MS	kfizrifat@gmail.com
08	Assoc. Prof. Dr. Md. Motasimul Hasan (Shiplu)	Associate Professor	01715-109292	MBBS, MS	drshipluns@gmail.com
09	Assoc. Prof. Dr. Muhammed Shamsul Islam Khan	Associate Professor	01713-455662	MBBS, MS	drsikhan@gmail.com
10	Dr. Rashed Mahmud	Assistant Professor	01911-091610	MBBS, MS	
11	Dr. Md. Sumon Rana	Assistant Professor	01710-961706	MBBS, MS	
12	Dr. Md. Mahfuzur Rahman	Assistant Professor		MBBS, MS	
13	Dr. Md. Rashidul Hasan	Assistant Professor		MBBS, MS	
14	Dr. Isma Azam (Zico)	Assistant Professor		MBBS, MS	
15	Dr. Md. Gaousul Azam	Assistant Professor		MBBS, MS	

“Group Picture-1”



“Group Picture-2”



NEUROSURGERY WARD DISTRIBUTION

Total number of beds: 300

Bed distribution in our Neurosurgery department:

Category	Ward	Total Bed No
Male paying bed	201	30
Female paying bed	200	24
Female non-paying ward	204	84
Male non-paying ward	100	56
	103	58
	200	48
Cabin/ Sick bed		Any number
N.B. There are approximately 150 male and female patients remain in the floor of rooms and veranda of all non-paying wards.		

Total Neurosurgery ward no: 5

Our present OT facilities:

- Total no of operation theatre: 4
 - 2 Emergency OT theatres – OT-103, OT-105 (Ground floor)
 - 2 Routine OT theatres- on 2nd floor (OT-9, OT-10)
- 24 Hours round the clock: Emergency operations are being done

UNDERGRADUATE TEACHING & LEARNING ACTIVITIES

Lecture

Neurosurgery Lecture: Average 10 hours

1. Head injury
2. Spinal injury
3. Hydrocephalus
4. Brain tumor (Both primary and secondary)
5. Congenital anomalies (e.g. Spina bifida)
6. Spinal tumor
7. Stroke(Both hemorrhagic and ischemic stroke)
8. Aneurysm and vascular malformation
9. Low back pain (e.g. PLID, fixation)
- 10.CNS infection (e.g. TB, meningitis, abscess, skull osteomyelitis etc)

Bed Side Teaching

Bed side teaching: 1 Weeks

1. History taking.
2. Clinical examination
3. Bed side procedure (e.g. Lumber puncture, lumber drain, CSF tapping etc)
4. Teaching how to read neuroimaging (e.g. X-ray, CT scan, MRI)
5. Sterilization
6. OT etiquette

Block Posting (5th year)

Vigorous academic discussion occurs during the placement in block posting.

Summative Assessment

Final Professional examination:

1 Group usually selected from Neurosurgery (in written)

1 of the 5 Box questions from Neurosurgery (in viva)

POST-GRADUATE TEACHING LEARNING ACTIVITIES

FCPS (Neurosurgery)

- For part I student: Individual unit orientation
- For part II preliminary
- For part II final

**MS (Phase A)
Residency**

- Organized course and block conduction under BSMMU

**MS (Phase B)
Residency**

- Organized course and block conduction under BSMMU

MS (Non-residency)

- Dhaka University
- BSMMU

MS Residency Program

Phase A: Duration 2 years (Basic)

Out of 7 blocks first 2 block are placed in Neurosurgery.

Block 1 (3 months): Introductory Neurosurgery.

Block 2 (3 months): Neuroemergency.

Phase B: Duration 3 years (Clinical).

Total 6 blocks. Each block duration is 6 months placed on the rotation basis.

Block 1: General Neurosurgery

Block 2: Brain Neoplasms

Block 3: Vascular Neurosurgery

Block 4: Head injury & Spine injury

Block 5: CNS infection & Seizures

Block 6: Functional Neurosurgery

ACADEMIC ACTIVITIES

❖ Residents:

6 Residents of Phase-A in each academic year (total 12 students in Phase-A)

Total 12 students in Phase-B

10 students in Thesis part

❖ Library:

Neurosurgery library is an academic premise in the department of Neurosurgery for all the residents and doctors. This library is equipped with skeleton, modern academic books and journals.

❖ Seminar Hall:

We have a seminar hall in our Neurosurgery department named "Professor Ata Alahi Khan Seminar Hall" where morning session, clinical seminars, journal club and different departmental meetings are being held with the help of modern technologies.

❖ Morning session:

- Starts at 8 AM to 9 AM.
- 24 hours admission reporting
- Reporting of the operation done in last 24 hours both routine and emergency.

- Criticism of the previous day operation or patient management done (if any)
- Any decision (case) regarding the admitted patients for subsequent management
- Critical reporting of ICU, HDU and other critical patients of the ward
- Preoperative case presentation
- Daily mortality reporting and evaluation of the causes of mortality
- Mortality review also done on weekly and monthly basis

❖ **Combined Neurosurgery-Neurology seminar:**

Every 2nd week and 4th week of each months combined Neurosurgery-Neurology seminar which acts as an important platform for discussion of the rare and of diagnostic dilemma patients.

❖ **Monthly CME (Continued Medical Education):**

On different interesting topics

❖ **With other allied discipline of surgery:**

In surgery conference room on Tuesday and Thursday.

Clinical seminar

Journal club

❖ **Participation in Central presentation of DMCH:**

Every Sunday at 8:00 AM in Gallery-1(now in Shahid Milon Auditorium).

❖ **Stem-cell project:**

On going in separate set up 25cases are already done by BMAC.

❖ **Neuro-cathlab:**

Both the diagnostic and therapeutic cases are dealt round the week.

❖ **Academic Outing:**

Already done with the residents in different places.

❖ **Classes:**

Every day for Phase-A & Phase-B students class from 1:30-2:30 PM.

Class for undergraduate students: (Bed side and lecture)

❖ **Examinations:**

- MS (Neurosurgery) final examinations
- Block final examinations: for MS and allied subjects.

Exam usually in one day

Written exam at 8:00-9:00 AM

SCA: 9:00-10:00 AM

Viva: 10:00-11:00 AM

Result published at 11:30 AM.

Journal:

We have different journal presentations in our Neurosurgery department as well as in Surgery conference room.

We have a journal of Bangladesh Society of Neurosurgeons (BSNS)

Presentation:

We have regular clinical presentations on different topics in our own department as well as in collaboration with Surgery and allied subjects. Besides this, our Neurosurgery department participates in the central presentation of Dhaka Medical College according to schedule.

Research & Publication:

The faculties of Neurosurgery department of Dhaka Medical College have their publications in different national and international publications each year.

The residents of our department are doing their thesis works on different topics such as:

- i) Correlation between Timing of Surgery and Post-Operative Outcome in Traumatic Acute Subdural Hematoma (by Dr. Md. Shamsul Huda)
- ii) Early Radiographic Changes Following Hinge Craniotomy and Decompressive Craniectomy Done for Surgical decompression of Brain (by Dr. Muhammad Robiul Hoque)
- iii) Comparison of Surgical Outcome of Cranioplasty between 3D-Printed Polyetherether (PEEK) Patient Specific Implant and Frozen Autologous Bone (by Dr. S. M. Monir Hossain)
- iv) Correlation between Sagittal Balance & Degenerative Lumbar Canal Stenosis (by Dr. Md. Mahmudul Hasan)
- v) Correlation between Duration of Preoperative Motor Deficit and Early Postoperative Motor Outcome of Intradural Extramedullary Spinal Tumour (by Dr. Md. Salahuddin)
- vi) Early Radiographic Changes Following Decompressive Craniectomy and Decompressive with Cisternostomy for the Treatment of Traumatic Brain Injury: A Comparative Study (by Dr. Md. Shahnawas Biswas)