

YEAR BOOK

2021



YEAR BOOK 2021

National Institute of Neurosciences & Hospital



National Institute of Neurosciences & Hospital

ন্যাশনাল ইন্সটিটিউট অব নিউরোসায়েন্সেস ও হাসপাতাল

Sher-E-Bangla Nagar, Agargaon, Dhaka 1207, Bangladesh



Preface

National Institute of Neurosciences & Hospital started its journey from September, 2012. This Institute was officially inaugurated by Honorable Prime Minister Sheikh Hasina. It is situated in the health hub of Sher-e-Bangla Nagar, Dhaka. This is the only Govt. run tertiary care neuroscience Center in Bangladesh. Three fifty bedded 10 storied hospital having department of Neurology, Neurosurgery, Pediatric Neurology, Pediatric Neurosurgery, Neurophysiology, Neurointervention, Neurorehabilitation, Neuroradiology, Neuropathology, Transfusion Medicine, Critical Care Medicine & so others. Our Operation Theatre, Cath Lab, Laboratory Services, Neuroradiology, Neurophysiology, ICU & HDU and Stroke unit are equipped with all modern & sophisticated technologies.

We are having specialized out patient service & 24×7 emergency service. We also provide in patient service. Patients get all these services almost free of cost or with minimum charges as per govt. schedule. Everyday more than thousand patients get our specialized OPD service. We conduct Stroke, Headache, Epilepsy, Movement Disorder & Botox Clinic at our outpatient department. We have a 100 bedded stroke unit here.

Our academic wing is enriched with reputed faculties & conduct residency training & Post Graduate courses for MD/MS/FCPS students under the curriculum of BSMMU & BCPS. We conduct regular training for our physicians working at primary & secondary level to make them acquainted with different neurological disorders & develop the skills to manage these disorders as a part of National Health Service policy. Neurosciences Institute also inspires our physicians & scientists in different health related research activities & in organizing scientific seminar, symposium & workshops with participation of national & international faculties. We already conducted National Epilepsy & Stroke Survey. In collaboration with ICDDRB & other international research organizations our clinical trial on GBS is going on. We already achieved Best Performance Health Minister Award 2018 for our outstanding contribution in our national health service & we believe our institute will be a Center of excellence in near future.



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We also extend our sincere thankfulness and indebtedness for the skills & talents of Prof. Dr. Md. Badrul Alam, Joint Director and Professor of Neurology, National Institute of Neurosciences & Hospital, Dhaka who played a major role in facilitating this report & under whose stewardship this Yearbook 2021 is going to be published here.

Our indebted gratefulness is extended to Prof. Dr. Maliha Hakim, Professor and Head, Department of Neurology and Academic Course Director at National Institute of Neurosciences & Hospital, Dhaka for the contribution to the area of research which is resourceful standard and quality to this edition. We would like to thank Prof. Dr. Md. Zahed Hossain, Professor & Head, Department of Neurosurgery at National Institute of Neurosciences & Hospital, Dhaka who assisted through his critical analysis and review of a draft of the manuscripts and has helped in collecting important data, his constructive criticism and has improved the quality of this edition.

We are very much thankful to Deputy Director Dr. Faruk Ahmed, Assistant Director (Admin) Dr. Md. Fazlul Hoque, for their continuous support and endless appreciation.

Editorial Board prepared many drafts of each chapter and provided tactful, constructive criticism as the refining process progressed. We also extend special thanks to Prof. Dr. MS Jahirul Hoque Chowdhury, Associate Professor, Department of Neurology at National Institute of Neurosciences & Hospital.



Acknowledgement

We wish to thank the following administrative Staff who assisted with the development of this edition providing important academic & administrative data.

Yearbook Committee 2021

National Institute of Neurosciences & Hospital
Dhaka

Director Message



Director

National Institute of Neurosciences & Hospital
Dhaka



Yearbook 2021 is a very useful document of National Institute of Neurosciences and Hospital, Dhaka, Bangladesh where there is inclusion of different memorable history, activities and contribution in nation building as well as development of medical manpower. In this year 2021, we had to fight against covid-19 pandemic. Our isolation ward was full of covid affected patients. We

had to start vaccination programme which is still ongoing.

I strongly believe that stake holders will get much resourceful information, pleasure and enthusiasm. I feel proud to be associated with This issue. I believe those who have worked hard and have contributed to publish This issue will be proud and satisfied as well.

Lastly I believe that this year book 2021 will give further a good image, recognition and position of NINS&H at home and abroad.



Joint Director Message



Joint Director

National Institute of Neurosciences & Hospital
Dhaka



It is my privilege and honour to address on the eve of the publication of year book 2021 from National Institute of Neurosciences and Hospital, Dhaka, Bangladesh. All the activities of the Institute and Hospital are recorded in the year book. I believe, the devastating effect of covid-19 pandemic on NINS&H is reflected in the **year book 2021**.

I think this type of documentary publication will help every faculty member, students and other stake holders. I would like to thank the year book committee, editorial board, editors and all the persons involved with This wonderful work.

I hope that the year book 2021 will enrich us with resourceful information and encourage us for further development and important of the Institute and Hospital.



Year Book - NINS 2021

Editor Message



Editor

National Institute of Neurosciences & Hospital
Dhaka



After a long anticipated wait, it's great to see Yearbook 2021 finally come out. To start with the Credentials, we believe our editors get applause for their dedication and commitment, not to mention their team of wonder workers who worked long and hard to get **Yearbook 2021**. For us it has been a wonderful experience to be a part of the excitement of creating yet another collection of memories.

Being the secretary, it felt good to be able to share our previously gained Experience and knowledge.

This Yearbook is indeed a result of a lot of innovative minds put together. The end result is the brilliant display of creative art and writing. So far anybody who has been a part of NINS&H, this Yearbook is going to be a wonderful journey to the year's altogether. We have successfully come to the completion of Yearbook.

So far this rearrangement in the Yearbook committee and our working strategy has worked the way we hoped it would. We hope this Yearbook reflects all the Academic and Extracurricular performances of every Faculty of NINS.



Member Profiles of Yearbook Committee 2021



Prof. Dr. Sharif Uddin Khan
Professor of Neurology NINS & H
Editor Yearbook Committee 2021
E-mail: Sharif.911@gmail.com



Prof. Dr. Md. Joynul Islam
Member, Yearbook Committee 2021 &
Associate Professor of
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Associate Professor of Microbiology NINS&H
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Brief History of NINS

National Institute of Neurosciences & Hospital started its journey from September, 2012. This Institute was officially inaugurated by Honorable Prime Minister Sheikh Hasina. It is situated in the health hub of Sher-e-Bangla Nagar, Dhaka. This is the only Govt. run tertiary care neuroscience center in Bangladesh. Three fifty bedded 10 storied hospital having department of Neurology, Neurosurgery, Pediatric Neurology, Pediatric Neurosurgery, Neurophysiology, Neurointervention, Neurorehabilitation, Neuroradiology, Neuropathology, Transfusion Medicine, Critical Care Medicine & so others. Our Operation Theatre, Cath Lab, Laboratory Services, Neuroradiology, Neurophysiology, ICU & HDU and Stroke unit are equipped with all modern & sophisticated technologies.

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Vision, Mission & Objectives

Vision of the NINS

- National Institute of Neurosciences & Hospital will be the center of excellence in the health services.

Mission of the NINS

- National Institute of Neurosciences & Hospital, Dhaka will give the best treatment facilities in the neurological and neurosurgical diseases to the people of Bangladesh as well as abroad.

Objectives of the NINS

- National Institute of Neurosciences & Hospital will be the center of excellence in the health services.
- National Institute of Neurosciences & Hospital, Dhaka will give the best treatment facilities in the neurological and neurosurgical diseases to the people of Bangladesh as well as abroad.
- To perform the research work related with the neurological and neurosurgical diseases
- To develop the post-graduate expert in the field of neuroscience
- To give training on the management of neurological and neurosurgical diseases
- To treat the referred patients suffering from neurological and neurosurgical diseases
- To manage the neurological as well as neurosurgical patients with highest modalities
- To deliver the proper surgical management to the patients suffering from neurosurgical diseases
- To develop different treatment protocol related with neurological and neurosurgical diseases
- To do the best laboratory diagnostic tests



Academic Activities

Academic Council Meeting

- Every Three months interval

Academic Council Members

SL. No	Name	Designation
1	Professor Dr. Quazi Deen Mohammad	Director, NINS
2	Professor Dr. Md. Badrul Alam	Joint Director, NINS
3	Professor Dr. Maliha Hakim	Professor, Neurology, NINS
4	Professor Dr. Mohmmad Shah Jahirul Hoque Chawdhury	Professor Clinical Neurology, NINS
5	Professor Dr. Md. Zahed Hossain	Professor, Clinical Neurosurgery, NINS
6	Professor Dr. Narayan Chandra Saha	Professor, Paediatric, Neurology, NINS
7	Professor Dr. Sheikh Moahmmad Ekramullah	Professor, Paediatric, Neurosurgery, NINS
8	Professor Dr. Kazi Mohibur Rahman	Professor, Interventional Neurology, NINS
9	Professor Dr. Sharif Uddin Khan	Professor, Neurology, NINS
10	Professor Dr. Nawfel Islam	Professor, Neuro Pathology, NINS
11	Professor Dr. Waseka Akter Jahan	Professor, Biochemistry, NINS
12	Professor Dr. Khrshid Mohmood	Professor, Physical Medicine & Neurorehabilitation, NINS
13	Professor Dr. M.M Ehsanul Haque	Professor, Neurosurgery, Spine
14	Professor Dr. Ferdous Ara	Professor, Blood Transfusion, NINS
15	Professor Dr. Rajib Nayan Chowdhury	Professor, Neuro Physiology, NINS
16	Professor Dr. Md. Abdullah Alamgir	Professor, Clinical Neurosurgery, NINS
17	Dr. Faruk Ahmed	Deputy Director, NINS
18	Dr. Poritosh Kumar Sarkar	Associate Professor, Clinical neurology, NINS
19	Dr. Md. Joynul Islam	Associate Professor, Clinical Neurosurgery, NINS
20	Dr. Md. Mukleshur Rahman	Associate Professor, Clinical Neurosurgery, NINS



Acknowledgement

Academic Council Members

SL. No	Name	Designation
21	Dr. Md. Abdus Salam	Associate Professor, Neurotrauma, NINS
22	Dr. Nazmun Nahar	Associate Professor, Neuroradiology & Imaging, NINS
23	Dr. A.F.M Arshedi Sattar	Associate Professor, Microbiology Dept. NINS
24	Dr. Md. Shafiul Alam	Associate Professor, Gamma Knife, NINS
25	Dr. Md. Tauhidul Islam Chowdhury	Associate Professor, Neurology, NINS
26	Dr. Ameer Mohammad Khan	Associate Professor, Clinical Neurosurgery, NINS
27	Dr. Sabina Jesmin	Associate Professor, Pharmacology, Dept. NINS
28	Dr. Aminul Hasanat	Associate Professor, Neuro Anesthesiology, NINS
29	Dr. Amir Mohammad	Associate Professor, Clinical Neurosurgery, NINS
30	Dr. Md. Fazlul Haque	Assistant Director, NINS
31	Dr. Surajit Kumar Talukder	Assistant Professor, Psychiatry, NINS
32	Dr. Md. Sirajul Islam	Assistant Professor, Critical Care Unit, NINS
32	Dr. Abu Zafar Mohammad Salahuddin	Assistant Professor, Clinical Neurology, NINS
34	Dr. Monsur Ahmed	Assistant Professor, Cum Resident Surgeon, Clinical Neurosurgery, NINS
35	Dr. Meshbah Uddin Ahmed	Assistant Professor, Clinical Neurosurgery, NINS
36	Dr. Mamunur Rashid	Assistant Professor, Cum Resident Physician, Neurology, NINS

Post Graduate Course

- **MD course**
 - o Neurology
- **MS Course**
 - o Neurosurgery

Ethics Review Committee

SL. No	Name	Designation	-
1	Prof. Dr. Md. Azharul Hoque	Professor of Clinical Neurology, NINS & H, Dhaka	Chairman
2	Professor/Head	Dept. of Clinical Neurology, NINS & H, Dhaka	Member
3	Professor/Head	Dept. of Clinical Neurosurgery, NINS & H, Dhaka	Member
4	Professor/Head	Dept. of Neuro Pathology, NINS & H, Dhaka	Member
5	Professor/Head	Dept. of Pediatric Neurology, NINS & H, Dhaka	Member
6	Professor/Head	Dept. of Biochemistry, NINS & H, Dhaka	Member
7	Associate Professor/Head	Dept. of Neuro Radiology and Imaging, NINS & H, Dhaka	Member
8	Professor/Head	Dept. of Anesthesiology, NINS & H	Member
9	Assistant Director (Admin)	NINS & H, Dhaka	Member
10	President/Representative	Bar Council, Dhaka	Member
11	President/Representative	Bangladesh Press Club, Dhaka	Member
12	Nursing Supervisor	NINS & H, Dhaka	Member
13	Director / Representative of	Islamic Foundation, Dhaka	Member
14	Social Welfare Officer	NINS & H, Dhaka	Member
15	Research Assistant	NINS & H, Dhaka	Social Welfare Member Officer, NINS & H, Dhaka



Journal Club

Every Tuesday

Total Number in January to December 2021

Total Published- 08

Combined Clinical Meeting - Every Sunday

Clinical Meeting of Neurology - Every Wednesday

Neuro-anatomy Session - Thursday of every alternate week of the month

Training Facilities

- Neurology and Neurosurgery Post Graduate Training on Neurology & Neurosurgery
- Post Graduate Training for resident of Allied Subject of Medicine & Surgery
- Clinical Meeting of Neurosurgery Every Saturday & Monday
- Meeting of Pediatric Neurosurgery Research Committee: 1st Sunday of Every Month
- Clinical Meeting of Pediatric Neurology

Academic Course Committee

- Academic Director
 - o Prof. Dr. Maliha Hakim
- Academic Co-Ordinator (Neurology)
 - o Prof. Dr. Sharif Uddin Khan
- Academic Co-Ordinator (Neurosurgery)
 - o Prof. Dr. Md. Joynul Islam
- Course Manager (Neurology)
 - o Prof. Dr. Rajib Nayan Chowdhury
- Course Manager (Neurosurgery)
 - o Dr. Md. Fazle Elahi
 - o Dr. A. T. M. Ashadullah
- Course Supervisor
 - o All Assistant Prof. above Supervision Year



Services of the Hospital

Indoor-Patient Department (IPD)

Total number of 500 beds are available in National Institute of Neurosciences & Hospital. Among 350 beds, 304 beds are available in Indoor-Patient Department (IPD) which are situated from 4th floor to 8th floor of the hospital building. Each floor is divided into 2 (Two) wards. In the 4th floor there are two wards of which ward 1 is in the Neurosurgery Department and ward 2 is in the Neurology Department. In Neurosurgery ward, 32 beds are available within these 16 beds for male Patients & 16 beds for female Patients. In Medicine ward, 32 beds are available & all beds are restricted for Male Patients. 5th floor is designed by ward 3 named as Surgery ward & ward - 4 named as Medicine ward. In Neurosurgery ward, 32 beds are available within these 16 beds for Male Patients & 16 beds for Female Patients. In Medicine ward, 32 beds are available & all beds are restricted for Male Patients. 6th floor is designed by ward-5 named as Surgery ward & ward-6 named as Medicine ward. In Surgery ward, 32 beds are available and among this 8 beds for Male Patients, 8 beds for female patients & 16 beds for pediatric patients. In Medicine ward, 32 beds available within this 20 beds for female patients and 12 beds for pediatric patients. 7th floor is designed by ward-7 named as Surgery ward and ward-8 named as Medicine ward. In Surgery ward, 44 beds available within this 16 beds for male patients, 17 beds for female patients & 11 beds for pediatric patients. In Medicine ward, 39 beds available within this 7 beds for Male patients & 32 beds for Female patients. Ward-9 is specially designed as Cabin. In ward-9, 15 beds are available for Neuro medicine & patients of all age groups are allowed in this ward. In ward -9, beds are available for Neuro surgery & patients Ward-10 Stroke Unit or Both Male 50 beds and Female 50 beds of all age groups are allowed in this ward.

Out-Patient Department (OPD)

OPD of NINS is situated in the ground floor. It is situated beside the Left side of main gate at the entry of the Hospital. OPD service is available from 08:00 AM to 01:00 PM. There are about ten (10) rooms Such's 112, 103A, 103, 104, 105, 114, 115, 105A, 105B, 112A are specified for Neurological patient of various age groups. Besides this, Some special management like Stroke



Services of the Hospital

management, Headache Clinic, Epilepsy treatment provide on some specific day of each week. There are about six (06) rooms such as 110, 109, 107, 108, 106, 111 are distributed for Neurosurgical patient. The senior professors and the consultants are engaged in the OPD for seeing the patients in their schedule time.

Emergency Department

Emergency department is situated in the ground floor of NINS. It is situated at the entry of the Hospital. So that, Patients can admit quickly. In this emergency department there are two separate sections for the Neurological & Neurosurgical Patient. The Neurosurgical Patients are treated under Neuro trauma department which has two Units named as Unit -1 & Unit -2. In this department, the Neurological patients are managed by Emergency Medical Officer (EMO). There are 09 (Nine) emergency medical officers working here & Support the emergency Patients. If admission is needed this patients are directly sent to the respective ward. In each day of a week, different Neurology Units are designated for admission of the patient. In this context, following schedule has been maintained: in Saturday - red Unit, in Sun day - blue Unit, in Mon day- Yellow unit, in Tuesday – Orange unit, in Wednesday – Green Unit, in Thursday - pink Unit. There are about 20,415 (<5 years-925 & >5 years-19490) Patients attended in the emergency Neurology department of which Male 11,040 & Female

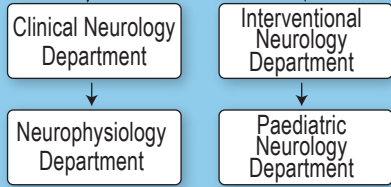
9,375 Patients were admitted in the different wards of the Hospital. Rest of the patients were given treatment or were sent different super specialized Hospital If Neurological problems were not there.

Intensive Care Unit (ICU)

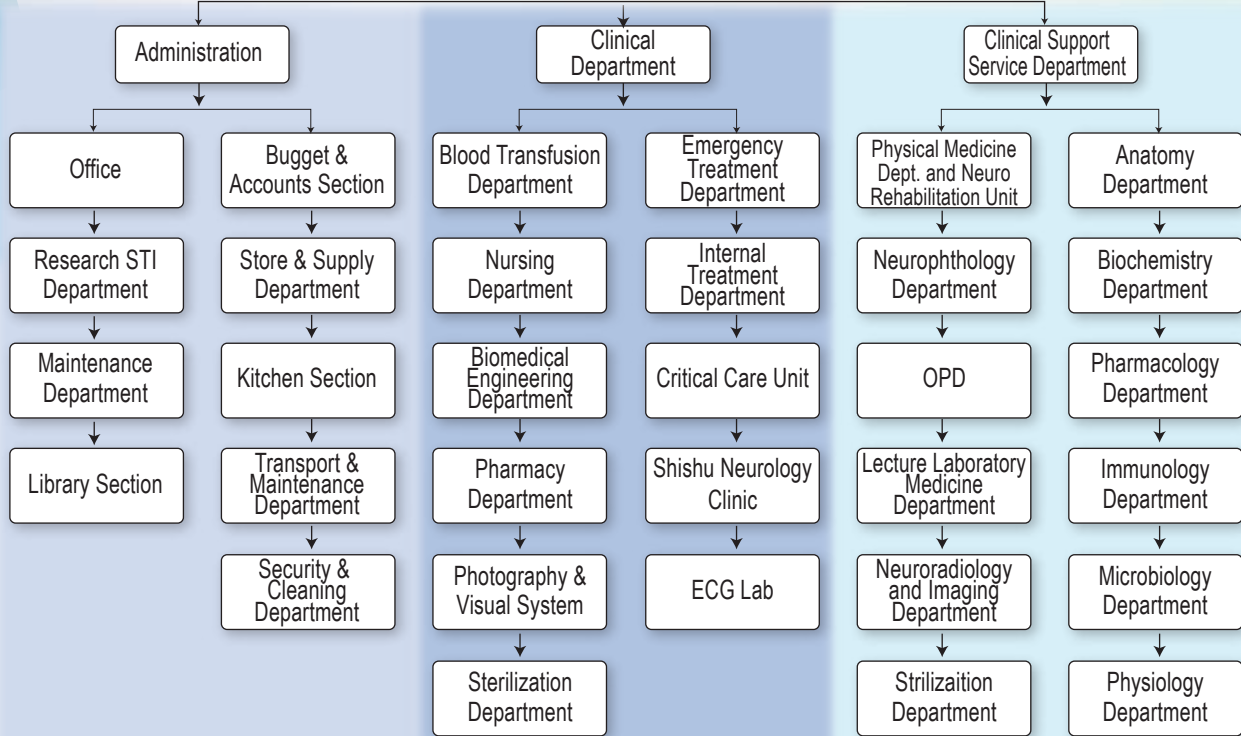
There are 16 beds available in the ICU which is situated in the 3rd floor of the hospital..

Director
 ↓
Joint Director
 ↓
Assistant Director

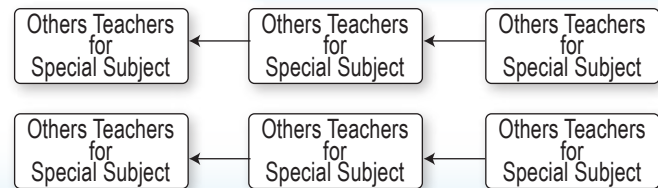
Neurology



Administration



Neurosurgery



Administrative Division

Administration/Administrative Division

SL. No	Name	Designation
1	Mohammad Ali Jinnah	Administrative Officer
2	Md. Mizanur Rahman	Head Assistant
3	Md. Shariful Islam	Mechanic Supervisor
4	Boobli Hassan	Computer Operator
5	Md. Saiduzamman	Upper Division Assistant
6	Subrata Kumar Nath	Data Entry Operator
7	Md. Shamim Al Maruf	Care Taker
8	Md. Rejaul Karim Khondaker	Office Assistant Cum Computer Typist
9	Md. Zakir Hossain	Doptory

Account Section of Office

SL. No	Name	Designation
1	Kazi Morshed Alom	Account Officer
2	Md. Anwar Hossain	Cashier
3	Md. Abdul Kader (Rokon)	Cash Sarker

General Store Section

SL. No	Name	Designation
1	Md. Faruk Hossain	Store Officer
2	Md. Imran Hossain	Store Keeper
3	Md. Sharif Kawsar Ahamed	Lilen Keeper
4	Md. Abdur Rahim	Assistant Store Keeper
5	Md. Rubel Hossain	Lilen Keeper



Administrative Division

Pharmacy

SL. No	Name	Designation
1	Palash Sarker	Pharmacist
2	Md. Asadullah Miah	Pharmacist
3	Jayanta Sarker	Pharmacist
4	Molina Ray	Pharmacist
5	Md. Jewel Rana	Pharmacist
6	Md. Abdul Jihad	Pharmacist
7	Shahadat Hossain	Pharmacist
8	Mahmudur Rahman	Pharmacist

Kitchen Department

SL. No	Name	Designation
1	Sanjib Paul	Sanjib Paul
2	Md. Faruk Hossen	Md. Faruk Hossen
3	Pradip Chandra Das	Pradip Chandra Das

Sterilization Department

SL. No	Name	Designation
1	Mulluk Hossain	Sterilization cum Machine Operator
2	Md. Wadut Sikder	Sterilization cum Machine Operator

Publication

Journal of National Institute of Neurosciences Bangladesh (J Natl Inst Neurosci Bangladesh) is a leading, open access, peer-reviewed scientific journal published by National Institute of Neurosciences and Hospital, Dhaka, Bangladesh. Papers are published without a publication charge. J Natl Inst Neurosci Bangladesh has been launched from January 2015 and will be published 2 times like January and July in each year. This journal aims to publish scientifically written, evidence-based, clinical practice and healthcare research related to neurology and neurosurgery as well as multidisciplinary medical subject related to neurosciences. Manuscripts should present novel findings addressing significant questions in clinical medicine research and practice, in the form of original article, editorial, review, short communication, case report, letter to the editor, and others. In addition to that J Natl Inst Neurosci Bangladesh publishes studies performed by multi-center groups including clinical trials and cohort studies from large patient populations, specifically phase I, phase II, and phase III studies performed under the auspices of groups such as general clinical research centers, cooperative oncology groups, and the like. Careful physiological or pharmacological studies that explain normal function or the body's response to disease as well as analytic reviews related to neurosciences such as meta-analyses and decision analyses using a formal structure to summarize an important field are acceptable to publish.

The circulation number of **J Natl Inst Neurosci Bangladesh** per issue is four hundred (400 copies).



Publication

1. Basic Subject Department
 - 1.1 Pharmacology Department
 - 1.2 Library
2. Neurology Department
 - 2.1 Neurology Red Unit
 - 2.2 Neurology Blue Unit
 - 2.3 Neurology Yellow Unit
 - 2.4 Neurology Orange Unit
 - 2.5 Neurology Green Unit
 - 2.6 Neurology Pink Unit
3. Pediatric Neurology Department
4. Neuro-anesthesia Department
5. Neuro Intervention Department
6. Neuro Physiology Department
7. Physical Medicine & Neuro-rehabilitation Department
8. Neurosurgery Departments
 - 8.1 Clinical Neurosurgery Department (Green unit)
 - 8.2 Clinical Neurosurgery Department (Blue unit)
 - 8.3 Clinical Neurosurgery Spine Department (Yellow unit)
 - 8.4 Clinical Neurosurgery Department (Pink unit)
 - 8.5 Pediatric Neurosurgery Department (Orange unit)
 - 8.6 Neuro-Trauma Department (Red unit)
 - 8.7 Gamma Knife Surgery Department
9. Laboratory Science Division
 - 9.1 Neuro-Pathology Department
 - 9.2 Microbiology Department
 - 9.3 Biochemistry Department
 - 9.4 Transfusion Medicine Department
10. Neuroradiology & Imaging Department
11. Cardiology Department
12. Psychiatry Department
13. Critical Care Medicine Department
14. Neurosurgery OPD Emergency IPD
15. Neurology OPD Patient Admission
16. Interim Analysis on Stroke Unit
17. NINS at a Glans
18. Corona Virus Diseases (Covid-19)



Department of Pharmacology



Name of the Faculty

Dr. Sabina Jesmin

MBBS, M.Phil (Pharmacology)

Associate Professor

Department of Pharmacology & Therapeutics

National Institute of Neurosciences & Hospital

Sher-E- Bangla Nagar, Agargaon,

Dhaka-1207, Bangladesh

Activities of the Department

- Taking Post Graduation
- Lecture class of Neurosurgery
- Coordinate administrative works
- Conduct Different Exams
- Library Incharge



Library

Library Teachers Room



Table 1: List of the Faculty

Name	Designation
Dr. Sabina Jesmin	Associate Professor, (Pharmacology) Library Incharge

Table 2: Supporting Staff of the Departments

SL. No	Name	Designation
1	Abdul Mannan	Cataloger
2	Asif Rana	Library Attendant
3	Afroja Pervin	Library Attendant
4	Tahera Khadiza	Library Attendant
5	Nusrat Khandoker	Office Assistant
6	Md. Alif Islam	Library Assistant (Washerman)



Library

Library section and information:

(Facilities and other services at the Library):

1. Library is open for all the from 8.00 am to 9.00 pm. Everyday (Except Friday and public holiday).
2. There is Wi-Fi Network facility.
3. Only the doctors of the institute and resident student can get all the benefits from library by submitting one passport size photo and 200 taka fees to collect a library card.
4. Full Time electricity facility.
5. There are 1,757 books on neurology, neurosurgery and other subjects.
6. There are 194 Journals.
7. Hinari Access it facilitates download of various medical books and journals.
8. Computer 06 Facilities for all readers and free to use photo copy to serve doctors.
9. There are good study arrangements for the students of MD/NS in this Institute.
10. Doctor's Prayer Room Separate Techno's Lounge.
11. Doctor's Personal locker room.
12. Separate wash room for male and female doctors.
13. CCTV Cameras for round the clock security.
14. Air Cooler System.



Figure I: Library Photo

Library

Inadequacy:

- According to the reader there is a lack of adequate space.
- There is a lack of space for bookshelves

Recommendation:

- Increase the space of the library.
- Separate the reading room.
- Turn of the punch card.
- Turn on automation.



Figure II: Library Photo

Table 3: Book available on different subjects

SL. No	Subject	Quantity
1	Neurology	70
2	Neurosurgery	63
3	Pediatric Neurology	38
4	Pediatric Neurosurgery	28
5	Radiology	43
6	Anatomy	44
7	Anesthesia	10
8	Medicine	40
9	Pathology	09

Library

Table 3: Book available on different subjects

SL. No	Subject	Quantity
10	Epilepsy	18
11	Critical Care	13
12	Pharmacology	10
13	Atlas	47
14	Psychiatry	07
15	Physiology	13
16	Biochemistry	11
17	Microbiology	18
18	Dictionary	14
19	Rheumatology	04
20	Parasitology	14
21	Histology	03
22	Embryology	04
23	Heart disease	02
24	Hematology	02
Total		525



Figure II: Library Photo

Library

Table 4: Others Books Name

SL. No	Subject
1	EEG
2	Rheumatology repeat
3	Parasitology repeat
4	Histology repeat
5	Embryology repeat
6	Epilepsy repeat
7	Hematology repeat
8	Endocrinology
9	Anatomy repeat
10	Immunology
11	Therapeutics
12	Hypertension
13	Neuromuscular Disorder
14	Ophthalmology
15	Atlas
16	Dictionary repeat
17	Liberation war Cell (1-12 Pieces)
18	Bangladesh war of Independence document (1-15 Pieces)

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
1	Bradley's Neurology in Clinical Practice	Robert B Daroff, Bradley's	6th Edition	2012
2	Neurology A Queen Square (Textbook)	Ed. Charles Clarke et al	1st Edition	2009
3	Harrison's Neurology in Clinical Medicine	Stephen Hauser	4th Edition	2017
4	Neurology and neurosurgery illustrated	Kenneth W.Lindsay Bone	5th Edition	
5	Swaiman's Padiatric Neurology	Kenneth F. Swaiman	6th Edition	2017

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
6	Brain's Neurology	Sir Roger Bannister	7th Edition	2012
7	Neurology and neurosurgery illustrated	Kenneth Lindsay Bone	5th Edition	2011
8	Child Neurology	John H. Menkes	5th Edition	1990
9	Clinical Neurology for Psychiatrists	David & Kaufman	7th Edition	2007
10	Differential Diagnosis in Neurology	Rajendra B. Kenkre	1st Edition	2010
11	Neurology	Lewis P. Rowland, Meritts	12th Edition	2010
12	Pediatric Neurology	Kamalendu Chakrabarti	4th Edition	2013
13	Principle of Neurology	Allan H. Ropper	9th Edition	2009
14	Textbook of Pediatric Neurology in Tropics	Ashok Gupta		2007
15	Differential Diagnosis in Neurology and Neurosurgery: A Clinician's Pocket Guide	Sotirios A. Tsementzis	1st Edition	2000
16	Duus' Topical Diagnosis in Neurology: Anatomy, Physiology, Signs, Symptoms	Mathais Baehr	5th Edition	2012
17	Localization in Clinical Neurology	Paul W. Brazis	6th Edition	2012
18	Neurology: A Queen Square Textbook	Charles Clarke (Editor), Simon D. Shorvon (Editor)	1st edition	2009
19	Short Cases on Clinical Neurology	Dr. Aminur Rahman	1st edition	2016
20	Adams & Vectors Principles of Neurology	Adams & Vectors	11th Edition	2019
21	Brain & Bannister's Clinical Neurology	Roger Bannister	7th edition	2004
22	Case Based Neurology	Anuradha Singh		2012

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
23	Clinical Neurology,	Michael Aminaff, David A. Greenberg	9th edition	2015
24	Clinical Pediatric Neurology	Fenichel, J Exic Pina Garza	7th edition	2013
25	Comprehensive Review in Clinical Neurology	Cheng-Ching MD		2011
26	Diagnostic criteria of Neurology	Alan.J.Lemur,MD		2006
27	Neurology for the Non Neurologist	William J. Wein, Christopher G. Goetz, Robert K. Shin	6th edition	2010
28	Oxford Hand Book of Neurology	Hadi Manji, Sean Connolly	2nd Edition	2014
29	Paediatric Neurology (Oxford Specialist Handbooks in Paediatrics)	Rob Forsyth & Richard Newton	2nd Edition	2012
30	Text Book of Clinical Neurology	Christopher G. Goetz	2nd	2003
31	Advances In Neurology parkinson's disease	Ariel Gordin, Seppokaakkola	1st ed	2013
32	Atlas Of Clinical Neurology	Roger N Rosenberg	3rd ed	2009
33	Color Atlas Of Clinical Neurology	Malcolm Robson Parsons	2nd ed	1993
34	Fenichels Clinical Pediatric Neurology:A Signs And Symptoms Approach	Fenichel, J Exic Pina Garza	7th ed	2013
35	Hankeys Clinical Neurology	Graeme J. Hankey	2nd ed	2014
36	Merrits Neurology Hand Book	Pietro Mazzoni, Toni Shih	2nd ed	2006
37	Neurology Neonatology Questions And Controversies	Jeffrey M. Perlman	2nd ed	2012
38	Aminoffs Electrodiagnosis in clinical Neurology	Michael Amino ft	Edition & Year	2012
39	Comprehensive Review in Clinical Neurology	Cheng-Ching MD	6th edition	2011
40	Diagnostic criteria of Neurology	Alan.J.Lemur,MD		2006

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
41	Localization in Clinical Neurology	Paul W. Brazis, Jose C. Masden, Jose Biller	6th edition	2012
42	Advances In Neurology parkinson's disease	Ariel Gordin, Seppokaakkola	1st ed	2013
43	Hankeys Clinical Neurology	Graeme J. Hankey	2nd ed	2014
44	Fenichels Clinical Pediatric Neurology:A Signs And Symptoms Approach	Fenichel, J Exic Pina Garza	7th ed	2013
45	Merrits Neurology Hand Book	Pietro Mazzoni, Toni Shih	2nd ed	2006
46	Neurology Neonatology Questions And Controversies	Jeffrey M. Perlman	2nd ed	2012
47	Handbook of Pediatric Neurology	Katherine Sims		2014
48	Imaging in Neurology	Osborn		2016
49	Neurology of The Newborn	Joseph J. Volpe	5th edition	
50	Pediatric Neurology -- Essentials for General Practice	Peter L. Heilbronner	1st edition	2013
51	Pediatric Neurology- A Case Based Review	Tena Rosser	1st edition	2007
52	Weiner & Levitl's Pediatric Neurology	Michal E. Cohea	4th edition	2003
53	Practical Paediatric Neurology	Veena Kalra	2nd Edition	2016
54	Clinical Neurology Of The Older Adult	Joseph I. Sirven MD		2002
55	Clinical Signs in Neurology A Compendium	William W. Campbell	1st Edition	2016
56	Drugs in Neurology	Sathiji Nageshwaran	1st Edition	2017
57	Fetal Neurology	Ritsuko K Pooh	1st Edition	2009
58	Introduction To Clinical Neurology	Douglas J. Gelb MD	5th Edition	2016

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
59	IAP Textbook Of Pediatric Neurology	Anoop Verma	1st Edition	2014
60	Merritts Neurology	Elan D. Louis MD	13th Edition	2016
61	Neurology: An Illustrated Colour Text	Geraint Fuller	3rd Edition	2010
62	Neurology For The Non Neurologist,	William J. Weiner	6th Edition	2010
63	Neurology Cases with Expert Commentary	Dr. Krishna Chinthapalli	1st Edition	2016
64	Pediatric Neurology : A Case –Based Review	Tena Rosser	1st edition	2007
65	Fenichel's Clinical Pediatric Neurology	J.Eric Pina Garza	8th Edition	2019
66	Volpe's Neurology of the Newborn	Joseph J. Volpe	6th Edition	2018
67	Clinical Neurology & Neuroanatomy: A localization	Aaron L. Berkersitz	1st Edi	2017
68	Kempe's Atlas of Operative Neurosurgery	Michael Saleman, Kempe's	2nd Edition	2004
69	A History of Neurosurgery	Samuel Greenblatt		1997
70	Endovascular Neurosurgery: A Multidisciplinary Approach	Paul Butler		2000
71	Handbook of Neurosurgery	Mark's greenberg	7th Edition	2010
72	Neurosurgery Case Review	Remi Nader		2010
73	Neurosurgical Operative Atlas Pediatric Neurosurgery	James tait Goodrich	2nd Edition	2008
74	Rama Murthy Text book of Neurosurgery	Prakash Narain Tandon, Ramamurthi	3rd Edition	2012
75	Differential Diagnosis in Neurology and Neurosurgery: A Clinician's Pocket Guide	Sotirios A. Tsementzis		2000

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
76	Intracranial Endoscopic Neurosurgery:	David F. Jimenez		1999
77	Operative Techniques in Pediatric Neurosurgery:	A. Leland Albright		2001
78	Principles and Practice of pediatric Neurosurgery:	A. Leland Albright	2nd Edition	2008
79	Micro-neurosurgery	M.G. Yasargil		
80	Controversies in Paediatric Neurosurgery	George I Jallo, Karl Koth Bauer, Gustavo Pradilla	1st edition	2010
81	Fundamentals of Operative Techniques in Neurosurgery	E Sander Connolly, Jr. Guy M Mckhann, Judy Huang, Tanvir F Choudhury	2nd edition	2010
82	Principals and Practice of Pediatric Neurosurgery	A Leland Albright, Ian F Pollack, P David Adelson	3rd edition	2015
83	Principals and Practice of Pediatric Neurosurgery	A Leland Albright, Ian F Pollack, P David Adelson	3rd edition	2015
84	Neurosurgery for Spasticity: A practical Guide for treating Children & Adult	Sindou Marc, Georgoulis George, Mertens Patrik		2014
85	Neurosurgery Tricks and Trade - Cranial	Remi Nader, Scott C. Burta,		2014
86	Neurosurgical Operative Atlas Functional Neurosurgery	Philip A. Starr, Nicholas M. Barbaro, Paul S. Larson	2nd Edition	2009
87	Nursing care of pediatric neurosurgery patient	Cathy C Cartwright, Donna C. Wallace		2013
88	Practical Hand Book of Neurosurgery	Mark Sindou		2009
89	Advances In Stereotactic And Functional Neurosurgery	CB. Ostertag, DG Thomas, Broggii	1st ed	1997
90	Clinical Neurosurgery, Proceedings Of The Congress Of Neurological Surgeons Boston	Mathew A. Howard	1st ed	2001

Library

Table 5: List of Important Neurology & Neurosurgery Books

SL. No	Title	Author	Edition	Year of Publication
91	MRI Atlas Orthopedics And Neurosurgery The Spine	Martin Weyreuther Christoph E	1st ed	2006
92	Operative Neurosurgery	Ravi Ramamurti	1st ed	2005
93	Ramamurthi & Tandon's Manual of Neurosurgery	Prakash Narain Tandon	1st ed	2014
94	Tumor Neurosurgery: Principles And Practice (Springer Specialist Surgery Series)	Anne J. Moore, David W.	1st ed	2006
95	Core Techniques in Operative Neurosurgery: Expert Consult - Online and Print,	by Rahul Jandial MD PhD and Paul McCormick MD MPH FACS	1st edition	2011
96	Micro neurosurgery, : Microsurgical Anatomy of the Basal Cisterns and Vessels of the Brain, Diagnostic Studies, General Operative Techniques and Pathological Considerations of the Intracranial Aneurysms)	M Gazi Yasargil	1st edition	1984
97	Neurosurgery Review		2nd edition	2008
98	Neurovascular Surgery	Robert F. Spetzler ;M. Yashar S. Kalani ;Peter Nakaji.	3rd edition	2009
99	Neurosurgery Knowledge Update	Robert E. Harbaugh		2015
100	Handbook of Neurosurgery	Mark S. Greenberg	9th Edition	2020
101	Anatomical Basis of Cranial Neurosurgery	Wolfgang Seeger, Josef Zentner	1st Edition	2018
102	Applied Cranial-Cerebral Anatomy: Brain Architecture and Anatomically Oriented Micro neurosurgery	Guilherme C. Ribas	1st Edition	2018

Department of Neurology (Red Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Quazi Deen Mohammad	FCPS (Medicine) MD (Neurology)	Professor
2	Dr. Abu Nayeem	FCPS, MD	Associate Professor
3	Dr. Gurudas Mondol	MD	Assistant Professor
4	Dr. Rashed Imam Zahid	MD	Assistant Professor
5	Dr. Muntasir Hasnain	FCPS	Junior Consultant
6	Dr. Rahatun Nayeem	FCPS	Junior Consultant
7	Dr. Harun Ur Rashid	MBBS	Medical Officer



Neurology (Red Unit)

Patient Profile ((From 01 January 2021 to 31 December 2021))

- **Total indoor patients:** 1977
- **Total outdoor patients:**
 - **Day of admission (Saturday):** Not fully registered
 - **Pre admission (Thursday):** Not fully registered
 - **Headache clinic (Monday):** Not fully registered

Table 2: Death profiles (From 01 January 2021 to 31 December 2021)

SL. No	Disease	Male	Female	Total
1.	Intracerebral haemorrhage	169	82	251
2.	Ischemic stroke	88	59	147
3.	Brain stem haemorrhage	17	15	32
4.	Subarachnoid haemorrhage	17	19	36
5.	Tubercular meningitis	5	1	6
6.	Meningoencephalitis	7	2	9
7.	ADEM	0	0	0
8.	GBS	0	0	0
9.	CVST	0	0	0
10.	MND	0	0	0
	Total	303	178	481

- **Total Death rate- 24.32%** (From 01 January 2021 to 31 December 2021)

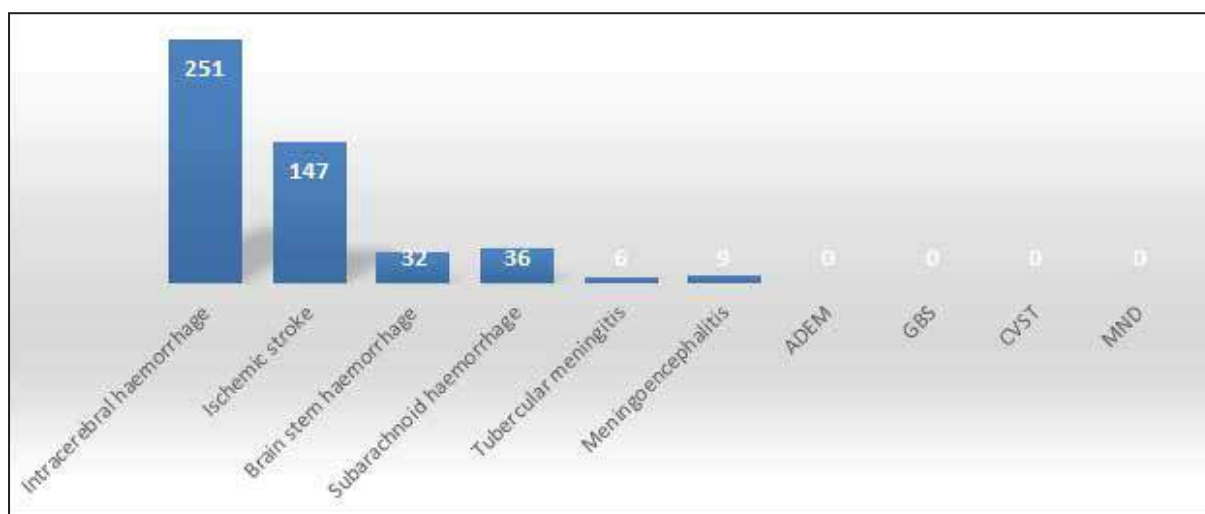


Figure I: Death rate

Neurology (Red Unit)

Table 3: Average duration of stay (01 January 2021 to 31 December 2021)

Duration Hospital of Stay			
Days	Male	Female	Number of Patient
0-5	148	118	266
5 to 10	633	507	1140
10 to 15	181	144	325
>15	137	109	246
Total	1099	878	1977

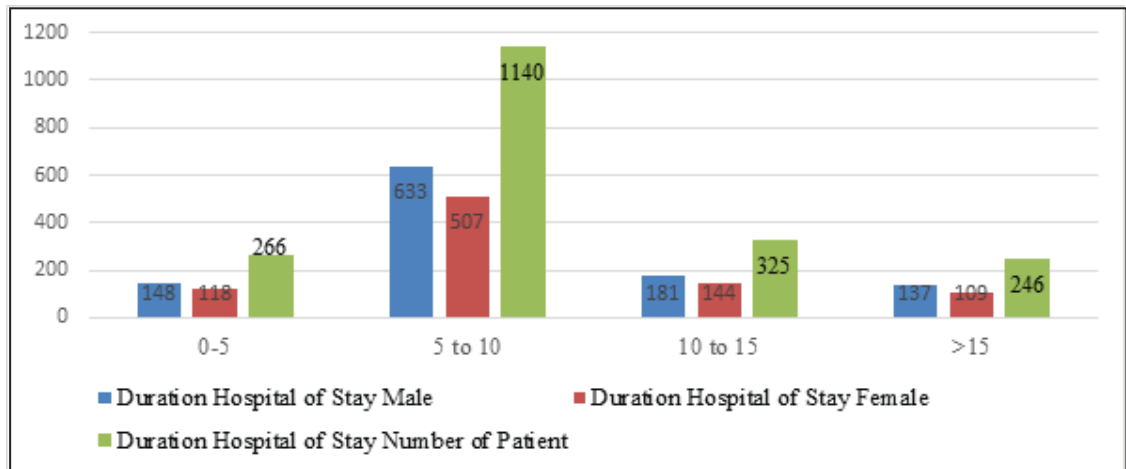


Figure II: Duration Hospital of Stay

Gender Distribution (From 01 January 2021 to 31 December 2021)

Male: 1104 (55.58%)

Female: 876 (44.41%)

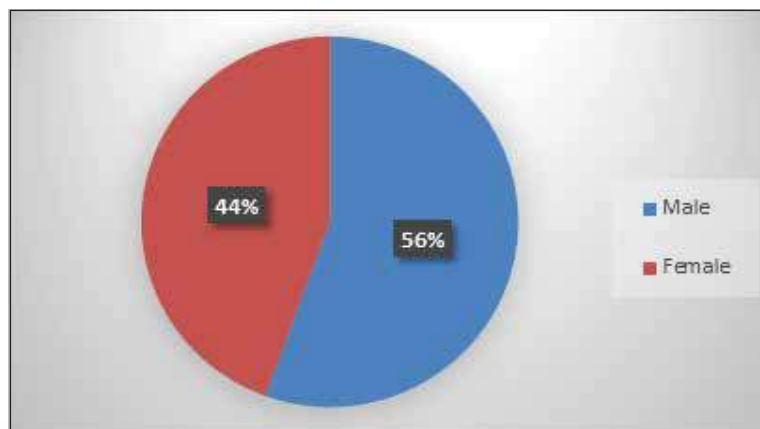


Figure III: Gender Distribution

Neurology (Red Unit)

Table 4: Disease Profile of Red Unit (01 January 2021 to 31 December-2021)

SL. No.	Name of Disease	Male	Female
1	Stroke and vascular disorder		
	Intracerebral haemorrhage	423	315
	Ischemic stroke	317	212
	Subarachnoid haemorrhage	24	17
	CVST	6	18
	SAH	96	141
	AVM	6	0
	NPH	0	1
2	Demyelinating CNS disorder		
	ATM	16	14
	MS	2	11
	ADEM	6	2
3	Peripheral neuropathy		
	GBS	32	18
	CIDP	6	2
	Polyneuritis cranialis Paraneoplastic neuropathy	3	0
	Multiple Cranial Nerve Palsy	3	0
	Paraneoplastic neuropathy	1	0
4	Infectious Diseases		
	Meningoencephalitis	40	31
	CNS TB	12	8
	Cerebral abscess		
		1	0
5	Metabolic disorder		
	Metabolic encephalopathy	30	18
6	Degenerative diseases		
	Myopathy	2	4
	MND	3	3
	PD	3	6
	SCA	2	
7	Myelopathy		
	Cervical myelopathy	1	0
	Pott's disease	2	0
8	N- M junction disorder	7	8
9	Seizure disorder	18	9

Neurology (Red Unit)

Table 4: Disease Profile of Red Unit (01 January 2021 to 31 December-2021)

SL. No.	Name of Disease	Male	Female
10	Miscellaneous		
	Hypokalemic periodic paralysis	2	0
	Idiopathic intracranial hypertension	1	20
	PRES	0	3
	Wilson disease	2	0
	Chronic subdural hematoma (CSD)	9	0
	Orbital apex syndrome	3	0
	PML	1	0
	Tetanus	1	0
	Retrobulbar Neuritis	2	3
	Migraine	2	3
	Chemotoxicities	1	0
	Ankylosing Spondylopathy	1	0
	Bronchial carcinoma metastasis to dorsal myelopathy	2	0
	SSPE	3	0
	SUSAC Syndrome	1	0
	RCVS	1	1
	Cauda Equine Syndrome		
	Brain Tumor	3	6
	Acute Cerebellitis	1	0
	Dementia	1	2
	Fahr Diseases	0	1
	Trigeminal Neuralgia	0	1
		1099	878

Neurology (Red Unit)

Table 5: District wise Distribution of Admitted indoor patients
(01 January 2021 to 31 December-2021)

Dhaka Division

SL. No	District	Male	Female	Total patients
1.	Dhaka	209	196	405
2.	Faridpur	14	22	36
3.	Gazipur	43	46	89
4.	Gopalganj	13	13	26
5.	Kishoreganj	36	24	60
6.	Madaripur	15	14	29
7.	Manikganj	33	25	58
8.	Munshiganj	29	26	55
9.	Narayanganj	66	47	113
10.	Narsinghdi	46	45	91
11.	Rajbari	9	7	16
12.	Shariatpur	27	25	52
13.	Tangail	39	20	59
Total		579	510	1089

Barishal Division

SL. No	District	Male	Female	Total patients
1.	Barguna	10	4	14
2.	Barishal	26	19	45
3.	Bhola	14	7	21
4.	Jhalakathi	3	3	6
5.	Patuakhali	8	9	17
6.	Pirojpur	4	2	6
Total		65	44	109

Neurology (Red Unit)

Chattogram Division

SL. No	District	Male	Female	Total patients
1.	Bandarban			
2.	Bhrahmanbaria	42	33	75
3.	Chandpur	4	8	12
4.	Chattogram	69	41	110
5.	Cumilla	2	2	4
6.	Cox'sbazar	8	11	19
7.	Feni	0	2	2
8.	Khagrachari	25	13	38
9.	Laxmipur	47	44	91
10.	Noakhali	1	0	1
11.	Rangamati	49	28	77
Total		247	182	429

Khulna Division

SL. No	District	Male	Female	Total patients
1.	Bagerhat	4	0	4
2.	Chuadanga	3	2	5
3.	Jashore	21	18	39
4.	Jhenidah	9	9	18
5.	Khulna	3	6	9
6.	Kushtia	14	4	18
7.	Magura	5	5	10
8.	Meherpur	5	3	8
9.	Narail	2	2	4
10.	Satkhira	4	0	4
Total		70	49	119

Mymensingh Division

SL. No	District	Male	Female	Total patients
1.	Jamalpur	15	7	22
2.	Mymensingh	17	13	30
3.	Netrokona	10	3	13
4.	Sherpur	5	4	9
Total		47	27	74

Neurology (Red Unit)

Rajshahi Division

SL. No	District	Male	Female	Total patients
1.	Bogura	7	4	11
2.	Joypurhat	2	1	3
3.	Naogaon	2	2	4
4.	Natore	4	4	8
5.	Chapainababganj	1	1	2
6.	Pabna	22	20	42
7.	Rajshahi	3	0	3
8.	Sirajganj	17	11	28
Total		58	43	101

Rangpur Division

SL. No	District	Male	Female	Total patients
1.	Dinajpur	2	4	4
2.	Gaibandha	10	6	16
3.	Kurigram	2	2	4
4.	Lalmonirhat			
5.	Nilphamari	2		2
6.	Panchagar	1		1
7.	Rangpur	1	1	2
8.	Thakurgaon	0	4	4
Total		18	17	35

Sylhet Division

SL. No	District	Male	Female	Total patients
1.	Habiganj	2	2	4
2.	Moulavibazar	3	0	3
3.	Sunamganj	3	0	3
4.	Sylhet	7	4	11
Total		15	6	21

Neurology (Red Unit)

Distribution of patients according to Division & district

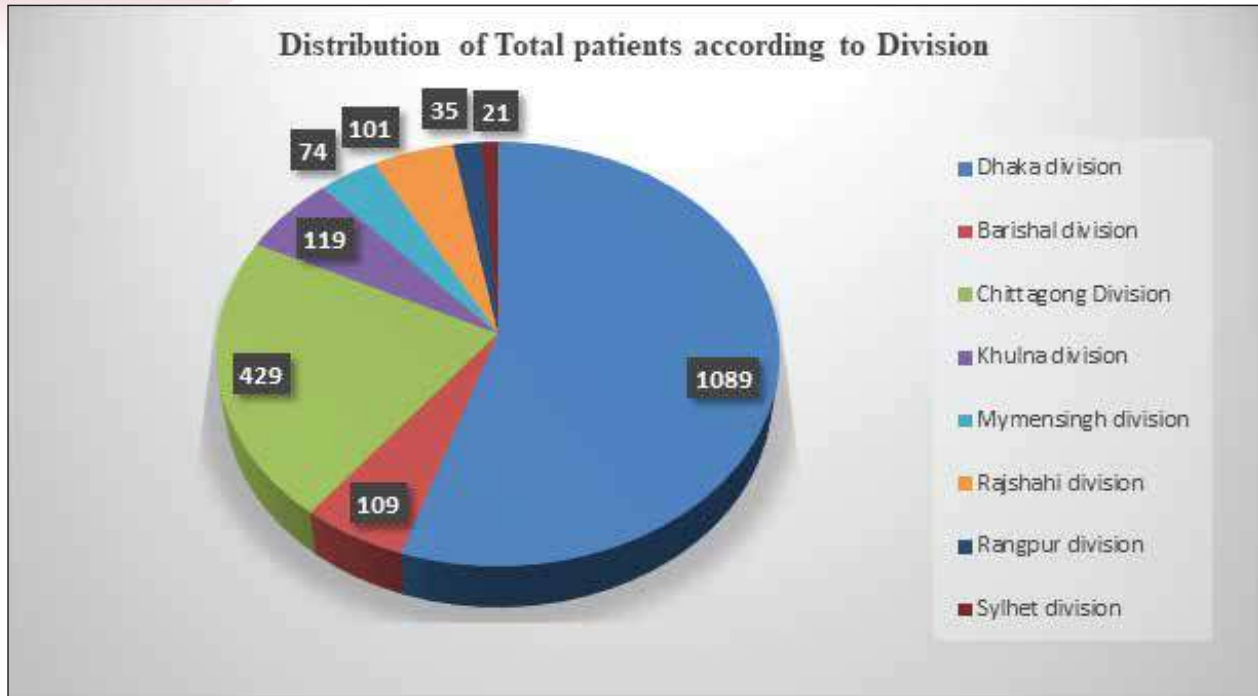


Figure IV: Distribution of Total patients according to Division



Department of Neurology (Blue Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Professor Dr. Md. Badrul Alam	MD (Neurology)	Professor & Joint Director
2	Dr. Md. Tauhidul Islam Chowdhury	MD (Neurology)	Associate Professor
3	Dr. Khairul Kabir	MD (Neurology)	Associate Professor
4	Dr. Nahidul Islam	MD (Neurology)	Assistant Professor
5	Dr. Mohammad Sadekur Rahman Sarkar	MD (Neurology)	Assistant Professor
6	Dr. K. M. Ahasan Ahmed	FCPS (Neurology)	Junior Consultant
7	Dr. Rezaul Huq	MBBS	Assistant Registrar
8	Dr. Fahmida Rouf	MBBS	Medical Officer
9	Dr. Naima Tullah Hazera	MBBS	Medical Officer
10	Dr. Sara Tanzila	MBBS	Medical Officer



Neurology (Blue Unit)

Introduction:

Blue Unit headed by Prof. Dr. Md. Badrul Alam started its Journey since the starting of in- patient service of Neuroscience Institute. A dedicated group of Neurologist & Physicians are serving for the best of interest of our patients.

Service wing-

We provide regular in-patient & out-patient service & also participate in specialized OPD clinic.

Academic wing-

Our academic activities include bed side discussion, journal presentation & participation in weekly anatomy & grand round session. We also arrange regular discussion on different topics & medical updates. Students of different postgraduate course are placed in our unit for training.

Research-

Our research wing is engaged in different research activities. A study titled "Safety and Efficacy of Citicoline in Acute Ischemic Stroke; Experience in a Tertiary Care Neurology Hospital, Bangladesh." has been conducted in our unit.

Our research wing is engaged in different research activities. A study titled "Complications of Patient with Spontaneous Intracerebral Hemorrhage Admitted In a Tertiary Care Hospital of Bangladesh." has been conducted in our unit.

Principal investigator: Dr. Mohammad Sadekur Rahman Sarkar, Assistant Professor (Neurology), National Institute of Neurosciences & Hospital, Dhaka.

Co-investigators: (1).Dr. K M Ahasan Ahmed, Junior Consultant, National Institute Of Neurosciences & Hospital, Dhaka. (2) Dr. Md Tauhidul Islam Chowdhury, Associate Professor (Neurology), National Institute Of Neurosciences & Hospital, Dhaka.

Executive summary:

Introduction: Spontaneous intracerebral haemorrhage (ICH) is a major cause of morbidity and mortality, accounting for 10–30% of first-ever strokes worldwide. In Bangladesh overall prevalence of stroke is 1.96 per 1000 populations and is higher among males The 30 day mortality for ICH has been reported to be 30–55%, with half the deaths occurring in the acute phase, especially in the first 48 hour. The frequency of complications ranged from 40% to 96% of stroke patients in reported cases which play a major role in optimal recovery and related to poor outcomes which are potentially preventable or treatable.

Objective: The objective of the study is to see the in hospital complications of spontaneous intracerebral hemorrhage.

Methodology:

It was a Hospital based observational follow up study conducted at National Institute of Neurosciences and Hospital, Dhaka. In a period of 5 months (from February 2021 to June 2021).

Neurology (Blue Unit)

Total 100 spontaneous intracerebral haemorrhage patient who admitted within 48 hours of onset of stroke were enrolled in this study by purposive sampling method. Routine investigations were done to all participant. Special investigations like computed tomographic angiogram, repeated computed tomography and coagulation profile were done when relevant. All patient were followed up every day during hospital stay and any complication developed and outcome were recorded. If any participant or legal guardian want to left the study he/she was replaced by another participant. Data analysis were carried out by using SPSS version 23 (IBM Corp., Armonk, NY).

Results:

This study revealed that mean age of participants were 58.27 ± 13.49 years. Male was more (51%) than female (49%). Our observation revealed electrolyte imbalance was the commonest complication found in 27% of patient followed by hematoma expansion 14%, hydrocephalus 13%, aspiration pneumonia 10%, urinary tract infection 4%, convulsive seizure 3% and pressure sore and deep vein thrombosis 1% of each. Hypertension was the commonest risk factor (84%) among them 42% have isolated hypertension and rest of them having other comorbidities of which combination of diabetes and hypertension is most common (22%). 6% of study subjects have no identifiable risk factors. Most of the admitted patient (80%) had moderate GCS (5-12), only 4% patient had poor GCS (≤ 4) and 16% admitted patient had good GCS (≥ 13). Average hospital stay was found 5.5 (5.5 ± 3.5) days among study subject, this indicate rapid turnover of patient. This study also revealed that 67% admitted patient survived and discharged to home and only 37% died at hospital.

Conclusion:

Electrolyte imbalance was found most common complication, followed by hematoma expansion, hydrocephalus, aspiration pneumonia, urinary tract infection, convulsive seizure, pressure sore and deep vein thrombosis. Average hospital stay was 5.5 days and 37% patient died during hospital stay.

Indoor Patient Profile Blue Unit (1st January 2021 to 31st December 2021)

Table 2: Total Bed Distribution for Blue Unit

Floor	Number of Beds
4th Floor	6
5th Floor	7
6th Floor	4
7th Floor	5
8th Floor	2

Neurology (Blue Unit)

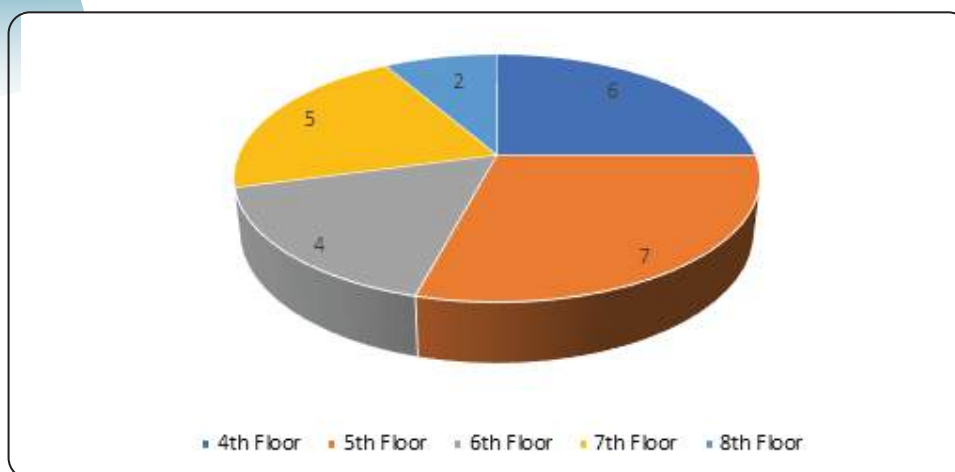


Figure I: Bed Distribution for Blue Unit

Table 3: Number of Admission (01 January 2021 to 31 December 2021)

Month	Floor								Sub Total		Total
	4 th Floor	5 th Floor	6 th Floor	7 th Floor	8 th Floor		9 th Floor Stroke unit				
	M	M	F	F	M	F	M	F	M	F	
January	20	18	9	10	0	0	45	42	83	61	144
February	25	22	11	11	0	0	44	45	91	67	158
March	24	23	10	13	2	0	44	40	93	63	156
April	26	6	13	11	0	1	29	21	61	46	107
May	30	24	15	13	1	1	56	42	111	71	182
June	18	18	9	14	1	2	41	39	78	64	142
July	23	18	13	12	0	2	48	41	89	68	157
August	22	22	11	12	0	0	45	44	89	67	156
September	27	29	8	13	3	1	48	46	107	68	175
October	25	23	8	18	4	4	51	55	103	85	188
November	19	19	10	5	1	2	52	45	91	62	153
December	21	24	15	19	2	3	51	48	98	85	183
Total	280	246	132	151	14	16	554	508	1094	807	1901

Neurology (Blue Unit)

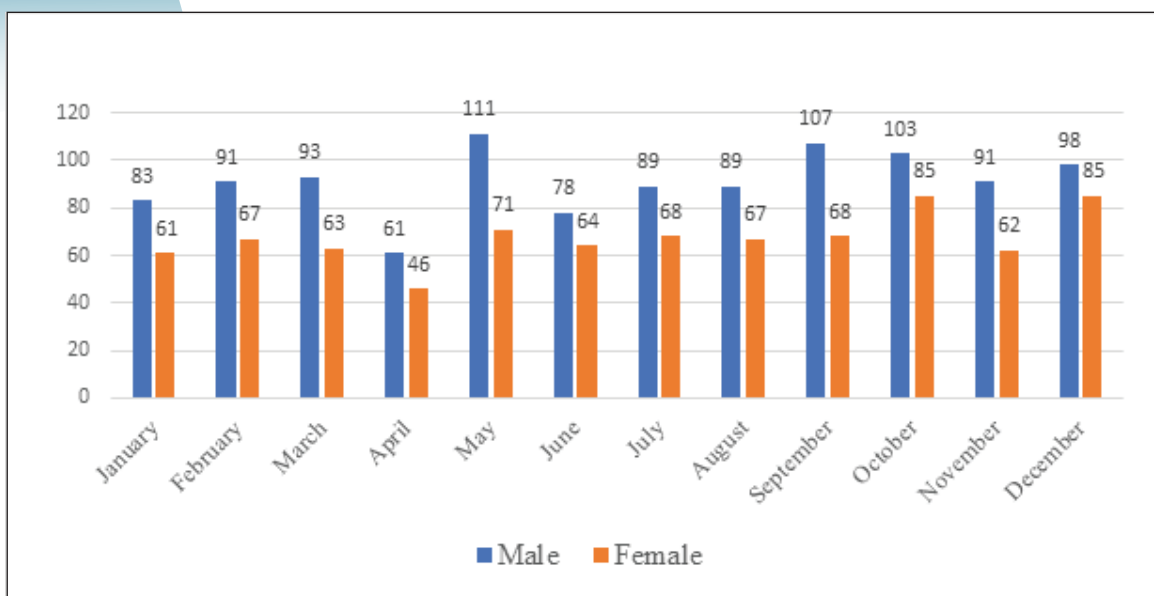


Figure II: Month wise distribution of indoor patients Male & Female

Table 4: Frequency of Age group getting admission

(01 January 2021 to 31 December 2021)

Age (in years)	Numbers of Male Patients	Numbers of Female Patients
<21	71	67
21-30	73	75
31-40	111	123
41-50	179	147
51-60	233	142
61-70	244	144
70-80	122	66
>80	61	43
Total	1094	807

Neurology (Blue Unit)

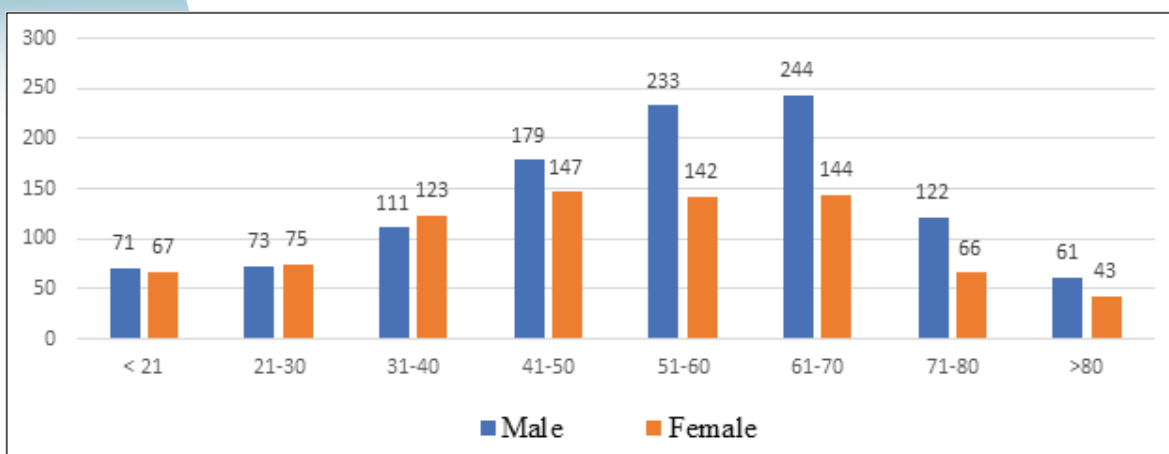


Figure III: Frequency of Age group getting admission

Table 5: Disease wise distribution of patients (01 January 2021 to 31 December 2021)

Diseases	Male	Female	Total
Acute Intracerebral Haemorrhage	458	310	768
Acute Ischemic Stroke	296	209	505
Subarachnoid Haemorrhage	94	97	191
Arteriovenous malformation	11	6	17
Cerebral venous thrombosis	6	19	25
Meningoencephalitis	37	24	61
CNS TB	19	15	34
Acute confusional state	44	18	62
Status Epilepticus	10	15	25
Cranial nerve palsy	7	3	10
Idiopathic Intracranial Hypertension	4	13	17
ICSOL	5	6	11
ADEM	4	5	9
Multiple sclerosis	1	4	5

Neurology (Blue Unit)

Table 5: Disease wise distribution of patients (01 January 2021 to 31 December 2021)

Diseases	Male	Female	Total
Compressive Myelopathy	25	11	36
Acute transverse myelitis	17	9	26
GBS	33	31	64
Peripheral neuropathy	12	7	19
Myasthenia gravis	5	4	9
Myopathy	2	0	2
Motor neuron disease	4	1	5
Total	1094	807	1901

Total Admission=1901

Male= 807

Female= 1094

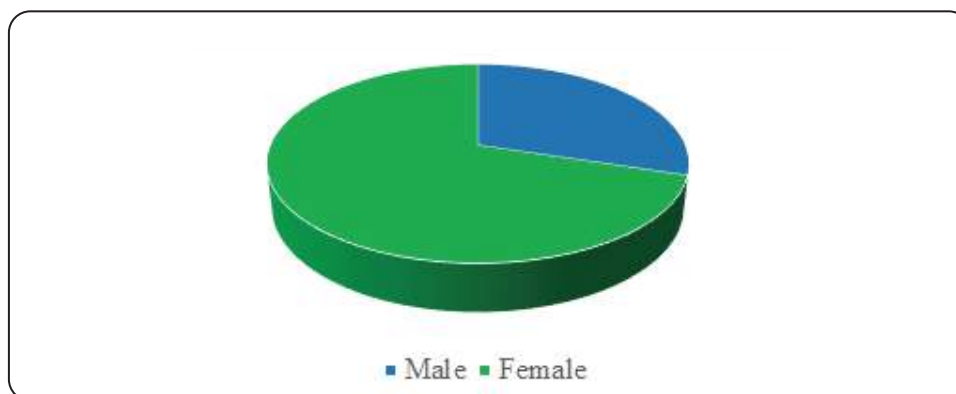


Figure IV: Gender Distribution

Neurology (Blue Unit)

Total Death=485

Death rate= $485/1901 \times 100 = 25.5\%$

Table 6: Disease wise death rate of indoor patients
(01 January 2021 to 31 December 2021)

Diseases	Male	Female	Total
Acute Intracerebral Haemorrhage	162	78	240
Acute Ischemic Stroke	118	43	161
Subarachnoid Haemorrhage	26	28	54
Meningoencephalitis	6	6	12
CNS TB	5	1	6
Encephalopathy	7	1	8
Cerebral venous thrombosis	0	2	2
Status epilepticus	0	2	2
Total	324	161	485

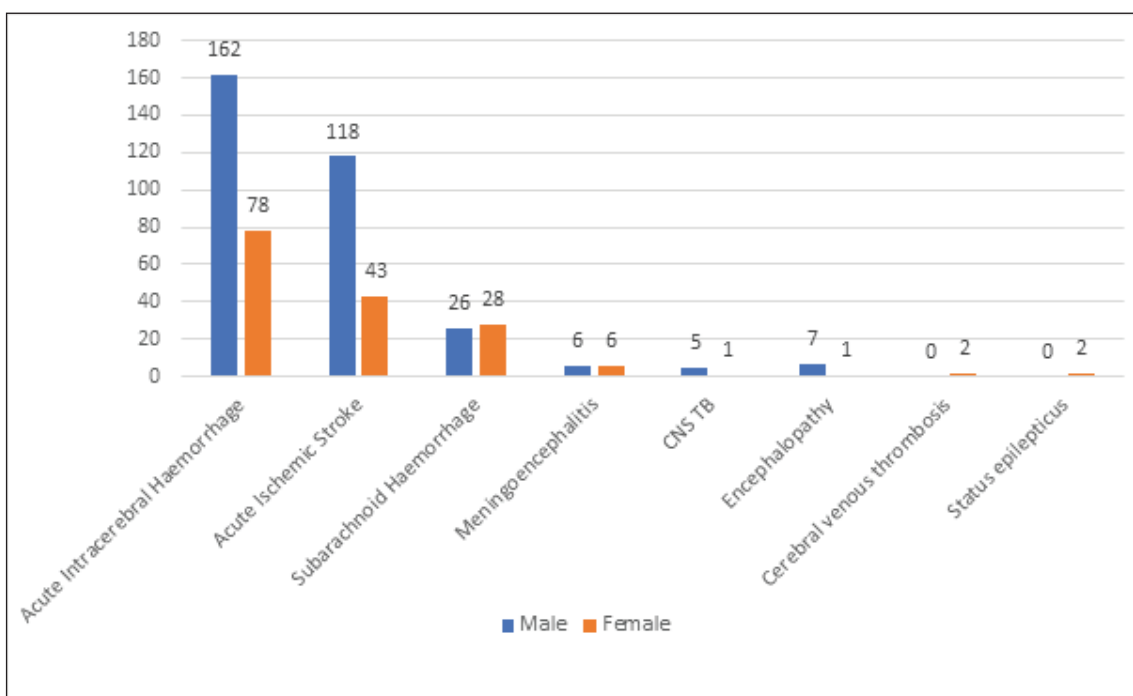


Figure V: Disease wise death rate of indoor patients

Neurology (Blue Unit)

Table 7: Causes of Morbidity (01 January 2021 to 31 December 2021)

Diseases	Male	Female	Total
Intracerebral hemorrhage	458	310	768
Ischaemic Stroke	296	209	505
SAH	94	97	191
GBS	33	31	64
Acute confusional state	44	18	62
Meningoencephalitis	37	24	61

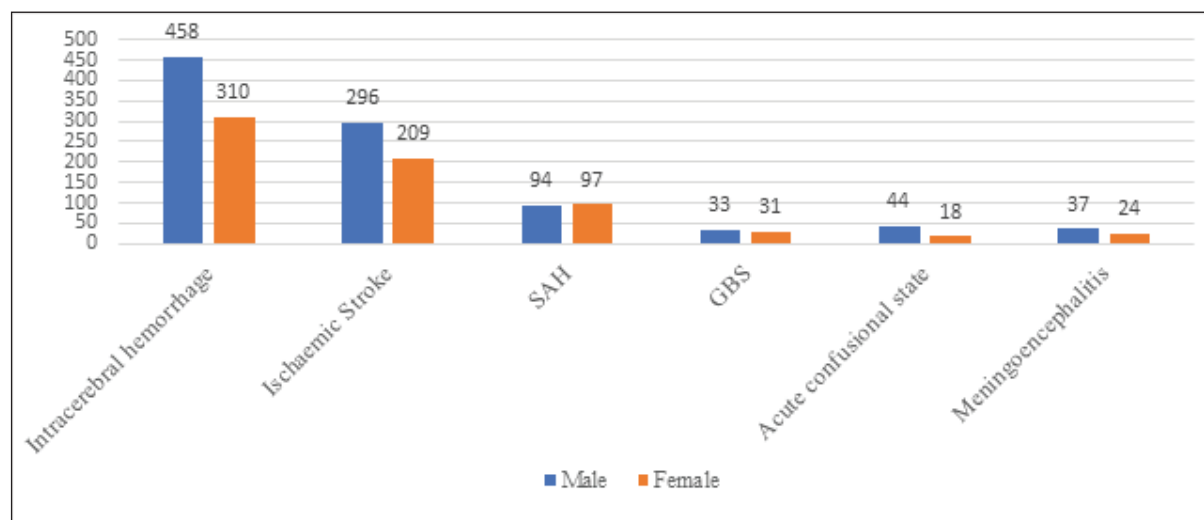


Figure VI: Causes of Morbidity

Neurology (Blue Unit)

Table 8: Causes of Mortality (01 January 2021 to 31 December 2021)

Diseases	Male	Female	Total
Intracerebral hemorrhage	162	78	240
Ischaemic Stroke	118	43	161
SAH	26	28	54
Encephalitis	6	6	12
TBM	5	1	6
Encephalopathy	7	1	8

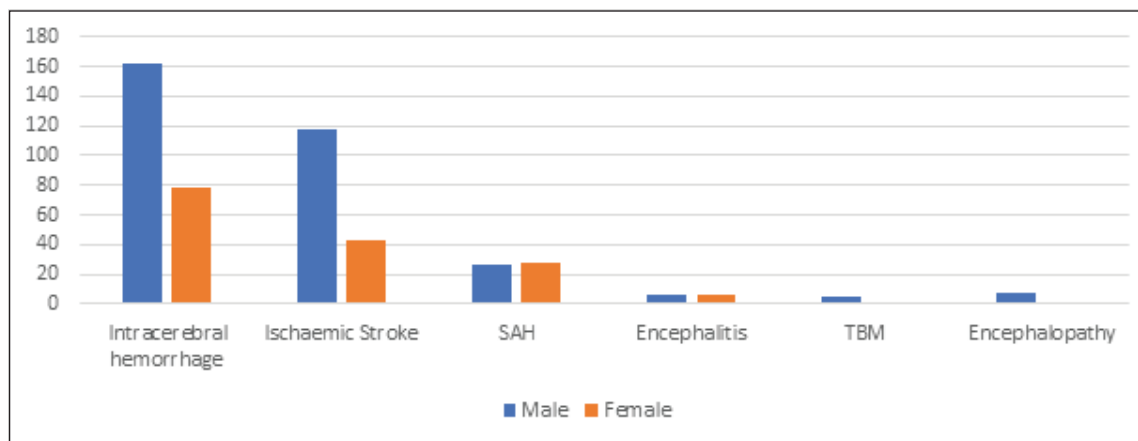


Figure VII: Causes of Mortality

Department of Neurology (Yellow Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. M S Jahirul Haque Chowdhury	MD (Neurology)	Professor
2	Dr. Afzal Momin	MD (Neurology)	Associate Professor
3	Dr. Enayet Hossain	FCPS (Medicine) MD (Neurology)	Associate Professor
4	Dr. Md. Enayetul Islam	MD (Neurology)	Assistant Professor
5	Dr. Md. Atiqur Rahman	MD (EM)	Assistant Professor
6	Dr. Imran Sarker	MCPs (Med) MD (Neurology) FCPS (Neurology)	Assistant Professor
7	Dr. Ishrat Quader	FCPS (Medicine)	Junior Consultant
8	Dr. Mohammad Tariqul Alam	FCPS (Medicine)	Assistant Registrar
9	Dr. Mohammad Kafil Uddin	MD (Neurology)	Medical Officer
10	Dr. Nazmin Nahar		Medical Officer
11	Dr. Maha Tosaddeque		Medical Officer



Neurology (Yellow Unit)

Table 2: Disease Profile of Yellow Unit (From 01 January 2021 to 31 December 2021)

Total Number of patients in indoor	2051 Patients
Total Number of patients in movement disorder clinic	1624 Patients

Table 3: Indoor patients' Profile (From 01 January 2021 to 31 December 2021)

Total number	2051 Patients
Gender distribution	Male- 1179 (57.48%) Female- 872 (42.51%)
Average hospital stay (mean \pm SD)	7.83 days
Mean age (mean \pm SD)	49.96 \pm 19.84 Years
Mortality	430 Cases

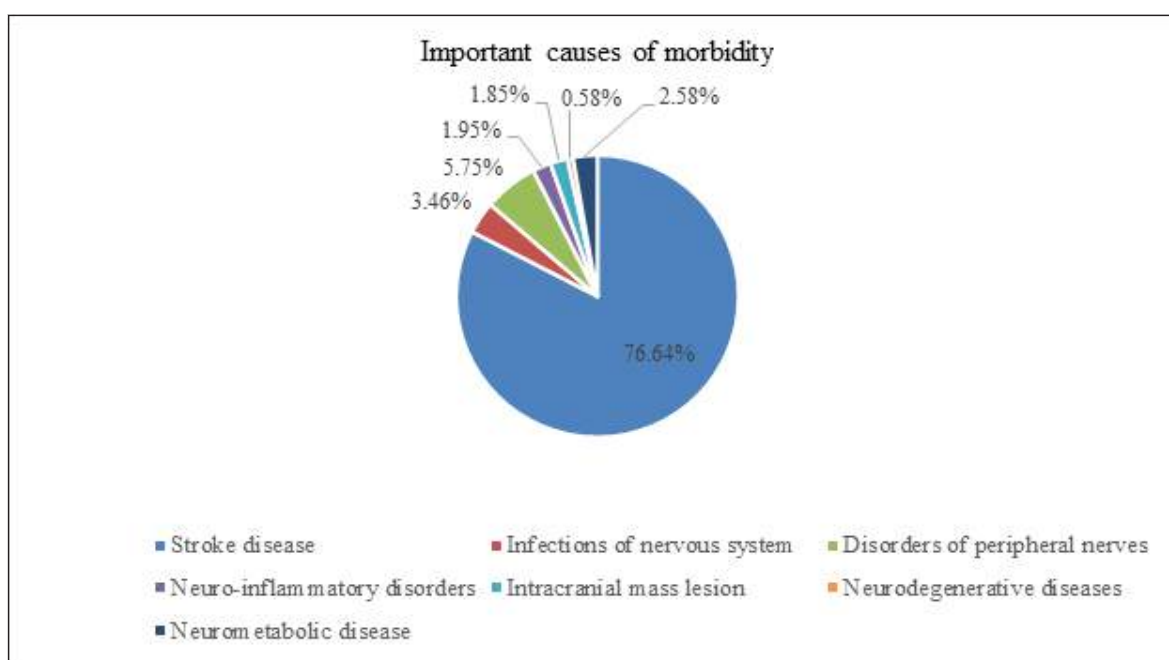


Figure I: Important causes of Morbidity in indoor patients

Neurology (Yellow Unit)

Table 4: Disease Profiles of indoor Patients (From 01 January 2021 to 31 December 2021)

Diagnosis	Number	Gender		Age (mean)	Hospital stay(mean)	Mortality
		Male	Female			
Stroke & vascular diseases	1572 (76.64%)	888	682	62.43 ±16.00	6.07 ±4.28	414
Neuro-inflammatory diseases	40 (1.95%)	22	18	43.57 ±17.63	9.76 ±5.92	0
Infections of nervous system	71 (3.46%)	42	29	40.83 ±19.92	8.98 ±5.20	10
Metabolic disease	53 (2.58%)	37	16	56.82 ±16.89	5.95 ±2.02	1
Intracranial mass lesion & raised intracranial pressure	38 (1.85)	12	26	49.21 ±16.81	7.36 ±3.07	2
Neuro-degenerative diseases	12 (0.58%)	10	2	49.24 ±15.52	5.96 ±1.86	0
Disease of spinal cord	28 (1.36%)	21	7	49.13 ±14.46	7.59 ±4.07	0
Disorder of peripheral nerves	118 (5.75%)	88	30	41.28 ±14.80	13.16 ±22.35	2
Disorder of neuro-mascular junction & muscles	15 (0.73%)	11	4	45.43 ±12.24	9.76 ±4.16	0
Seizure disorder or epilepsy	35 (1.7%)	20	15	38.60 ±18.56	6.89 ±3.50	1
Miscellaneous	69 (3.36%)	28	41	46.10 ±18.73	5.98 ±3.50	1
Total	2051	1179	872	55.76 ±17.84	7.05 ±6.73	430

Neurology (Yellow Unit)

Table 5: Distribution of stroke & vascular disease (From 01 January 2021 to 31 December 2021)

Stroke & vascular diseases	Number	Gender		Age (mean)	Hospital stay	Mortality
		Male	Female			
Haemorrhagic stroke	786 (50%)	473 (60.17%)	313 (39.82%)	57.75±16.50	5.78±4.14	256
Ischemic stroke	510 (32.44%)	300 (58.82%)	210 (41.17%)	48.27±15.31	5.79±3.32	103
Sub-arachnoid haemorrhage	190 (12.08%)	81 (42.63%)	109 (57.36%)	44.30±12.87	7.86±5.78	51
Venous stroke/ CVST	71 (4.51%)	26 (36.61%)	45 (63.38%)	31.86±6.14	8.72±3.56	3
Arteria-venous malformation	5 (0.31%)	3 (60%)	2 (40%)	33.75±13.36	7.83±4.03	1
Moya-moya disease	2 (0.12%)	1 (50%)	1 (50%)	16.49	9.56	0
Transient ischaemic attack	8 (0.50%)	6 (75%)	2 (25%)	67.67±19.66	4.56±1.60	0
Total	1572	888	682	54.46±15.081	5.98±4.21	414

Table 6: Distribution of neuro-inflammatory diseases (From 01 January 2021 to 31 December 2021)

Neuro-inflammatory diseases	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Multiple sclerosis	10 (25%)	2	8	34.33±6.99	7.87±2.29
Acute demyelinating encephalomyelitis	6 (15%)	4	2	51.00±1.41	14.50±9.99
Neuromyelitis optica spectrum disorder	6 (15%)	1	5	39.00±0.06	13.65±6.33
Transverse myelitis	18 (45%)	15	3	32.50±17.19	6.75±0.78
Total	40	22	18	34.57± 16.63	10.2± 5.80

Neurology (Yellow Unit)

Table 7: Distribution of infections of nervous system (From 01 January 2021 to 31 December 2021)

Infections of nervous system	Number	Gender		Age (mean)	Hospital stay	Mortality
		Male	Female			
Encephalitis	22 (31.42%)	8	10	47.75±23.69	11.75±4.67	3
Meningitis	19 (27.14%)	15	6	57.14±19.49	9.97±5.21	2
Tubercular infection	28 (40%)	14	8	38.36±11.45	10.91±5.82	0
Total	70	42	28	48.83±20.92	11.73±5.20	6

Table 8: Distribution of metabolic disorder (From 01 January 2021 to 31 December 2021)

Metabolic disorders	Number	Gender		Age (mean)	Hospital stay
		Male	Female		
Dyselectrolytaemia	20 (37.73%)	14 (70%)	6 (30%)	61.009.38	5.87±2.67
Wilson's disease	4 (7.54%)	2 (50%)	2 (50%)	5.78	8
Endocrine disorder (Dysglycemia, thyroid disorders)	19 (35.85%)	14 (73.68%)	5 (26.3)	68.00±0.00	5.50±72
Uraemic encephalopathy	10 (18.86%)	7 (70%)	3 (30%)	60.80	5
Total	53	37	16	58.82±16.89	5.45±2.02

Table 9: Distribution of Intracranial mass lesion & raised intracranial pressure

(From 01 January 2021 to 31 December 2021)

Intracranial mass lesion & raised intracranial pressure	Number	Gender		Age (mean)	Hospital stay
		Male	Female		
Primary brain tumour	10 (26.31%)	5 (50%)	5 (50%)	41.25±14.10	7.25±3.59
Secondaries	9 (23.68%)	6 (66.66%)	3 (33.33%)	56.38±14.10	7.93±3.66
Idiopathic intracranial hypertension	19 (50%)	1 (5.26%)	18 (94.73%)	27.56±14.80	5.56±2.60
Total	38	12	26	41.24±17.81	7.86±3.07

Neurology (Yellow Unit)

Table 10: Distribution of Neurodegenerative disorder (From 01 January 2021 to 31 December 2021)

Neurodegenerative disorder	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Motor neuron disease	8	7	1	48.64±10.60	7.10±1.64
Parkinson's disease	1	0	1	65	6
Ataxia	3	3	0	38.56±7.07	6.70±3.12
Total	12	10	2	±	±

Table 11: Distribution of disease of spinal cord (From 01 January 2021 to 31 December 2021)

Disease of spinal cord	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Compressive myelopathy	10	6	4	49.80±13.25	7.80±4.76
Non-compressive myelopathy	18	15	3	42.09±10.39	8.99±3.46
Total	28	21	7	47.13±14.46	8.90±8.07

Table 12: Distribution of disease of peripheral nerves (From 01 January 2021 to 31 December 2021)

Disease of peripheral nerve	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Peripheral neuropathy	13	7	6	51.13±17.52	7.70±2.98
Guillain Barre Syndrome	83	63	20	37.21±14.18	11.70±24.99
Chronic inflammatory demyelinating polyneuropathy	22	18	4	20.50±0.70	8.00±1.41
Total	118	88	30	47.28±14.80	9.16±12.35

Table 13: Distribution of Disease of Neuromuscular junction & myopathies

(From 01 January 2021 to 31 December 2021)

Disease of neuro muscular junction & myopathies	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Myasthenia gravis	8	7	1	56.67±12.58	11.00±6.08
Other myopathies	6	4	2	36.00±10.23	8.50±1.73
Total	14	11	3	40.43±12.29	10.00±4.16

Neurology (Yellow Unit)

Table 14: Distribution of Miscellaneous diseases (From 01 January 2021 to 31 December 2021)

Miscellaneous diseases	Number	Gender		Age (mean)	Average Hospital stay
		Male	Female		
Neuro-psychiatric disorder	7	2	5	38.75±18.02	6.28±1.41
PRES	3	1	2	56.67±16.54	7.50±2.17
Benign positional postural vertigo	10	5	48		2
Headache	11	4	7	38.50±17.00	8.75±4.65
Periodic paralysis	8	5	3	39.70±16.97	6.80±0.00
PLID	13	7	6	53	6
Tolosa Hunt Syndrome	2	0	2	40.50±20.91	6.00±2.83
Seizure disorder or epilepsy	35	20	15	34.30±18.56	6.30± 3.50
Optic Neuritis	8	2	6	32.25±13.02	8.00± 1.83
Vasculitis	3	1	2	34	8.4
Others-1. CJD 2. Dystrophia myotonica 3. Spinal cavernoma	3	0	3	27.09±7.57	8.09±2.09
Total	105	45	60		

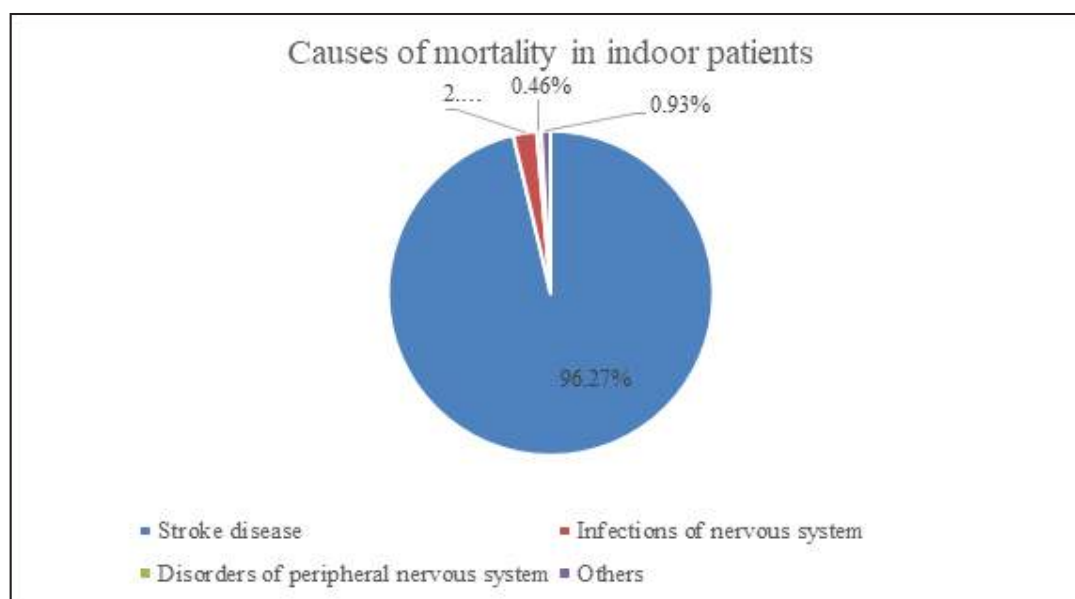


Figure II: Causes of mortality in indoor patients

Neurology (Yellow Unit)

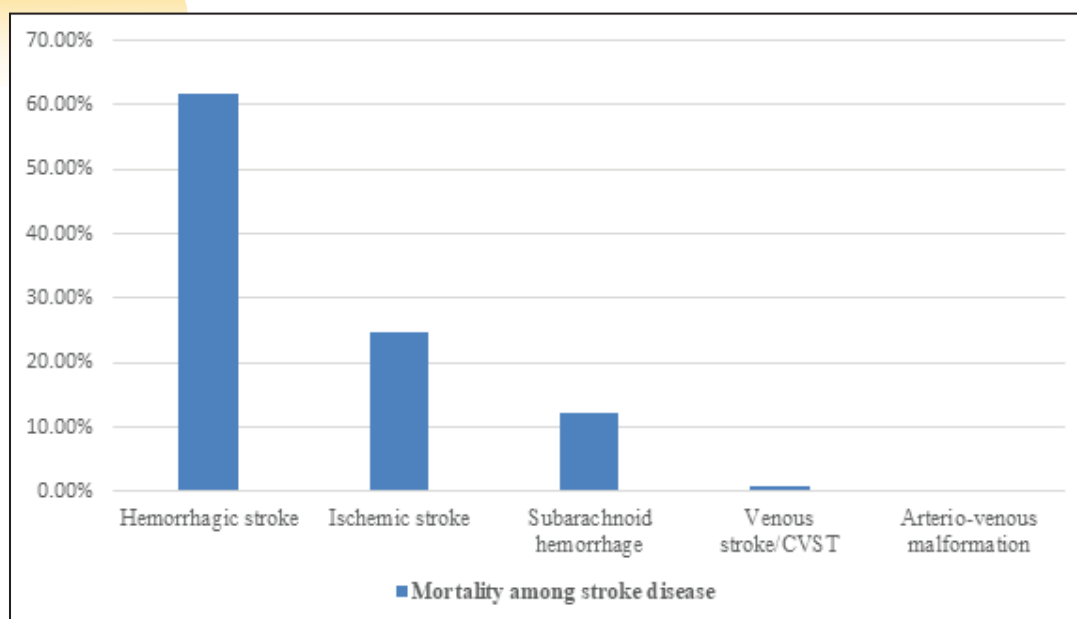


Figure III: Mortality Among Stroke Disease

Department of Neurology (Orange Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Maliha Hakim	MD (Neurology)	Professor and unit head
2	Dr. Murshed Baqui	MD (Neurology)	Associate Professor
3	Dr. Mahmudul Islam	MD (Neurology)	Assistant Professor
4	Dr. Mohammad Akter Hossain	FCPS (Medicine) MD (Neurology)	Assistant Professor
5	Dr. Mashfiqul Hasan	MCPS (Medicine) MD (Endocrinology)	Assistant Professor
6	Dr. Md. Nur Uddin	FCPS (Medicine) MD (Neurology)	Assistant Register
7	Dr. Saifur Rahman	MBBS	Medical Officer
8	Dr. Afsana Rahima	MBBS	Medical Officer
9	Dr. Samina Shams	FCPS (Medicine)	Medical Officer



Neurology (Orange Unit)

Background Information

The orange unit of neurology department, National Institute of Neurosciences and Hospital, starts its new journey under supervision of Prof. Maliha Hakim from September, 2016. As a part of the institute that plays pioneering role in treatment of neurological patients of the country and research on neurosciences, the unit is dedicated to provide best possible management to outdoor and indoor patients. The unit also believes in proper documentation and undertaking research works in the department. Academic programs, including bed side clinical demonstration, audio-visual tutorial classes and journal discussions are regularly being arranged. It promises to carry on the standard set by this renowned institute.

Academic Activities of the Orange unit

1. Management of admitted patients in indoor
2. Outdoor follow up of the previously admitted patients
3. Outdoor patient service (Monday and Tuesday)
4. Conduction of a specialized clinic: Dementia clinic (Thursday)
5. Participation in central academic programs (case presentation, grand round, journal presentation)
6. Regular arrangement of bedside clinical classes for the residents
7. Clinical meeting and journal discussion within the unit
8. Conduction of research activities

Table 2: Summary of Patients Profiles (From 01 January 2021 to 31 December 2021)

Total Indoor Patients	1281 Patients
Total Outdoor Patients	Not fully registered
Dementia Clinic	223 Patients

Table 3: Patients Profiles in Indoor (From 01 January 2021 to 31 December 2021)

Total Indoor Patients	1281 Patients
Gender distribution	Male- 587 (60.7%) Cases Female- 409 (39.3%) Cases
Hospital Stay	5 (4 to 8) days (median and inter-quartile range)
Mortality	101 (19.5%) Cases

Neurology (Orange Unit)

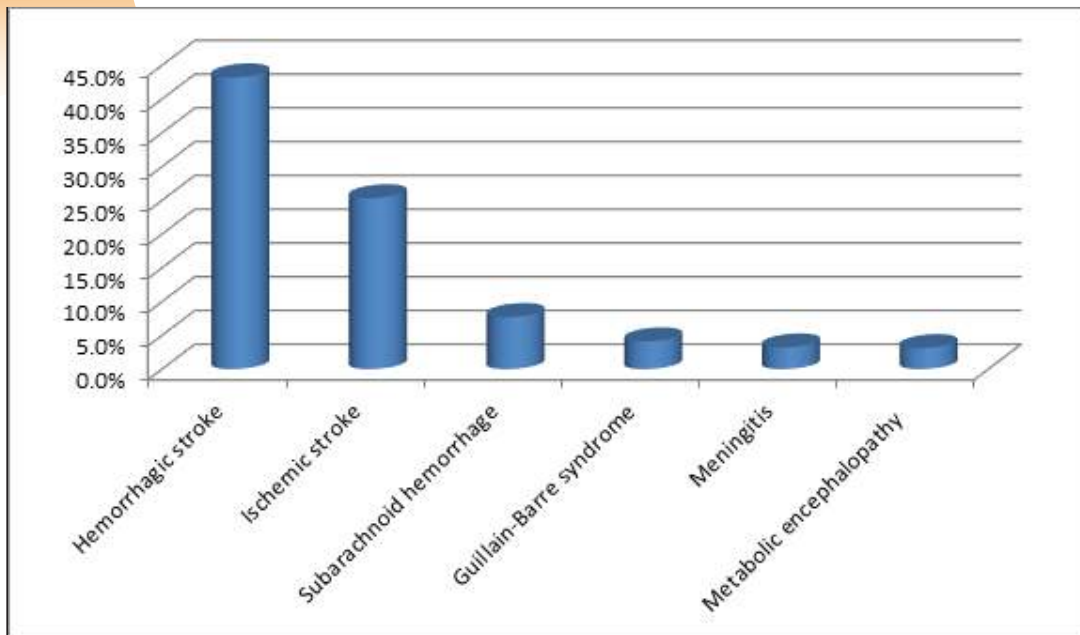


Figure I: Common Disease Pattern of indoor patients

Most frequent diagnosis hemorrhagic stroke (41.6%)> Ischemic stroke (21.8%) Subarachnoid hemorrhage (7.4%)

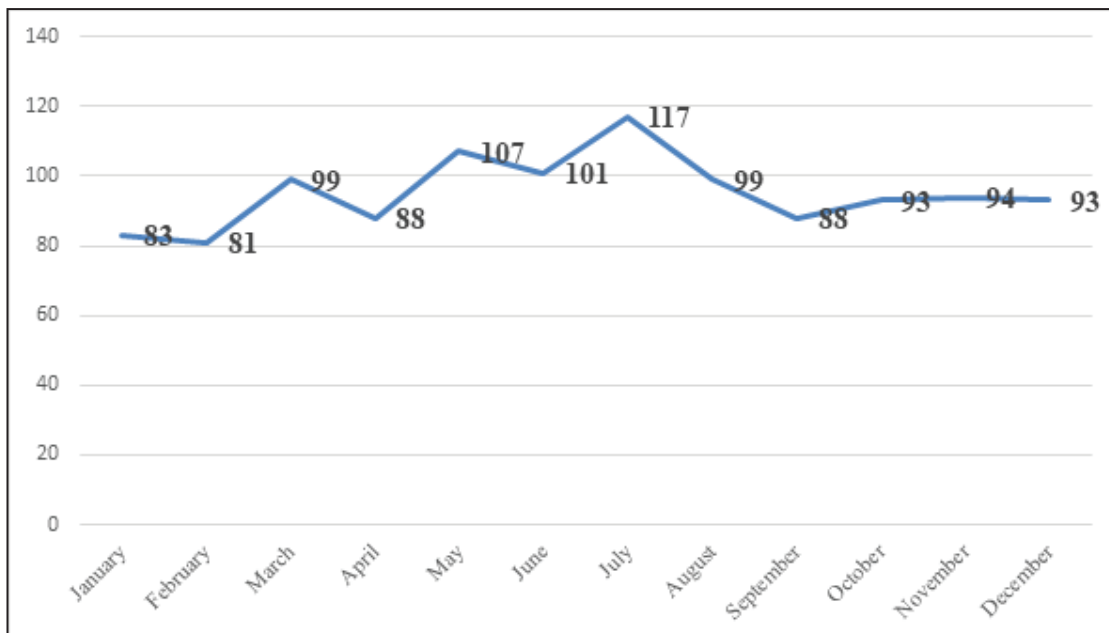


Figure II: Month-wise admission number of indoor patients

Neurology (Orange Unit)

Table 4: Details of Disease Pattern among admitted Patients

(From 01 January 2021 to 31 December 2021)

Disease	Total Admission	Gender distribution		Total Deaths
		Male	Female	
Stroke and vascular disorders				
Hemorrhagic stroke	496 (43.2%)	321 (64.7%)	175 (35.3%)	143 (28.8%)
Ischemic stroke	291 (25.3%)	151 (51.2%)	140 (48.8%)	67 (23.0%)
Subarachnoid hemorrhage	88 (7.7%)	33 (37.5%)	55 (62.5%)	16 (18.2%)
CVST	16 (1.4%)	2 (12.5%)	14 (87.5%)	-
Metabolic disorders				
Metabolic encephalopathy	36 (3.1%)	20 (55.6%)	16 (44.4%)	3 (8.3%)
Wilson's disease	3 (0.3%)	3 (100.0%)	0 (0.0%)	-
Infectious disorders				
Pyogenic Meningoencephalitis	11 (1.0%)	9 (81.8%)	2 (18.2%)	-
Tuberculous	12 (1.0%)	6 (50.0%)	6 (50.0%)	-
Viral Meningo-encephalitis	9 (0.8%)	6 (66.6%)	3 (33.3%)	2 (22.2%)
CNS TB	5 (0.4%)	5 (100.0%)	0 (0.0%)	-
Demyelinating disorders				
Multiple sclerosis	12 (1.0%)	5 (41.7%)	7 (58.3%)	-
Neuromyelitis optica	3 (0.3%)	2 (66.7%)	1 (33.3%)	-
Degenerative disorders				
Motor neuron disease	11 (1.0%)	8 (72.7%)	3 (27.3%)	-
Perkinson's disease	5 (0.4%)	4 (80.0%)	1 (20.0%)	-
Spinocerebellar ataxia	5 (0.4%)	3 (60.0%)	2 (40.0%)	-
Peripheral neuropathies				
Guillain-Barre syndrome	47 (4.1%)	23 (48.9%)	14 (51.1%)	-
Chronic inflammatory demyelinating polyneuropathy	7 (0.6%)	1 (14.3%)	6 (85.7%)	-
Polyneuritis cranialis	3 (0.3%)	2 (66.7%)	1 (33.3%)	-

Neurology (Orange Unit)

Table 4: Details of Disease Patients among admitted Patients

(From 01 January 2021 to 31 December 2021)

Disease	Total Admission	Gender distribution		Total Deaths
		Male	Female	
Myelopathies				
Compressive				
Pott's disease	5 (0.4%)	4 (80.0%)	1 (20.0%)	-
Prolapse intervertebral disc	7 (0.6%)	5 (71.4%)	2 (28.6%)	-
Hereditary spastic paraplegia	3 (0.3%)	1 (33.3%)	2 (66.7%)	-
Non- compressive				
Transverse myelitis	11 (1.0%)	7 (63.6%)	4 (36.4%)	-
Neuromuscular junction disorders				
Myasthenia Gravis	9 (0.8%)	6 (66.7%)	3 (33.3%)	-
Myopathies				
Inflammatory myopathy	2 (0.2%)	2 (100.0%)	0 (0.0%)	-
Miscellaneous				
Idiopathic Intracranial Hypertension	16 (1.4%)	1 (6.3%)	15 (93.7%)	-
Intracranial space occupying lesion	9 (0.8%)	8 (88.9%)	1 (11.1%)	-
Epilepsy	16 (1.4%)	8 (50.0%)	8 (50.0%)	-
Somatoform disorder	9 (0.8%)	0 (0.0%)	9 (100.0%)	-
Hypokalemic periodic paralysis	2 (0.2%)	2 (100.0%)	0 (0.0%)	-
Total	1149	648 (56.4%)	501 (43.6%)	231 (20.1%)

Department of Neurology (Green Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Paritosh Kumar Sarkar	MD (Neurology)	Associate Professor & Head
2	Dr. Anwar Israil	MD (Neurology)	Assistant Professor
3	Dr. Mohammad Sayed Hassan	FCPS, MD (Neurology)	Assistant Professor
4	Dr. Provat Kumar Sarkar	MCPS, MD (Neurology)	Assistant Professor
5	Dr. Junaid Abdul Qayyum	-	Assistant Registrar
6	Dr. Md. Shafikul Islam Khan	-	Medical Officer
7	Dr. Jannatul Ferdous	-	Medical Officer
8	Dr. Musammat Fahima Khatun	-	Medical Officer



Neurology (Green Unit)

Table 2: Summary of Patient Profiles (From 01 January 2021 to 31 December 2021)

Total Indoor Patients	966 Cases
Outdoor Patients	Not fully registered
Headache Clinic	Not fully registered

Table 3: Patient Profile In Indoor (From 01 January 2021 to 31 December 2021)

Total Indoor Patients	966 Cases
Male	619 (64.08%) Cases
Female	347 (35.92%) Cases

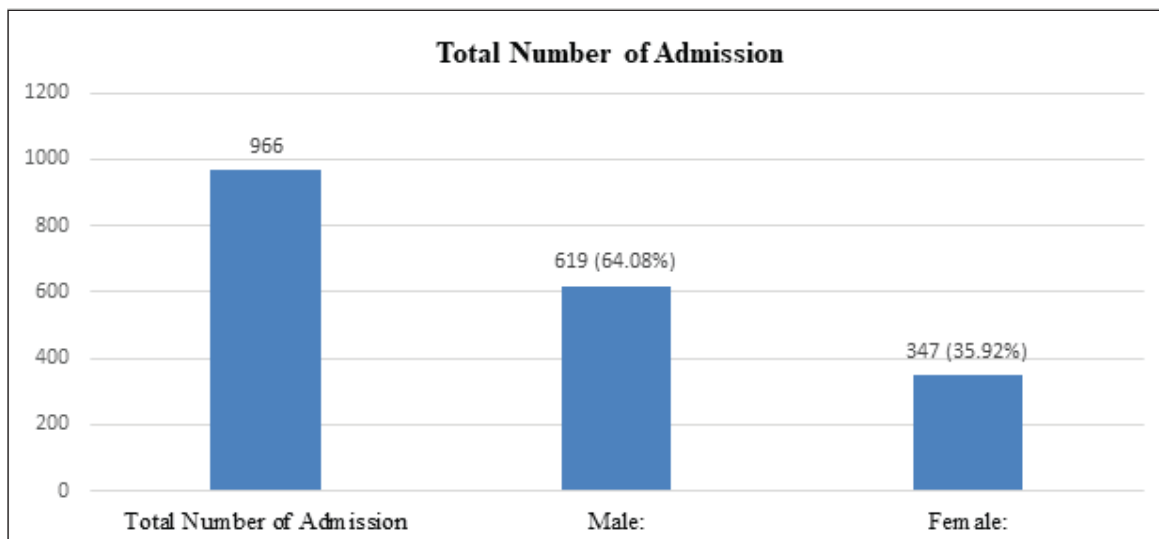


Figure I: Total Admission Male & Female

Table 4: Categorical Hospital Stay (From 01 January 2021 to 31 December 2021)

Average Hospital Stay : 6 days

Number of days	Discharged Cases	Death Cases	Total (961)
0-5 days	364	45	409
6-10 days	314	14	328
11-15 days	161	9	170
>15 days	56	3	59

Neurology (Green Unit)

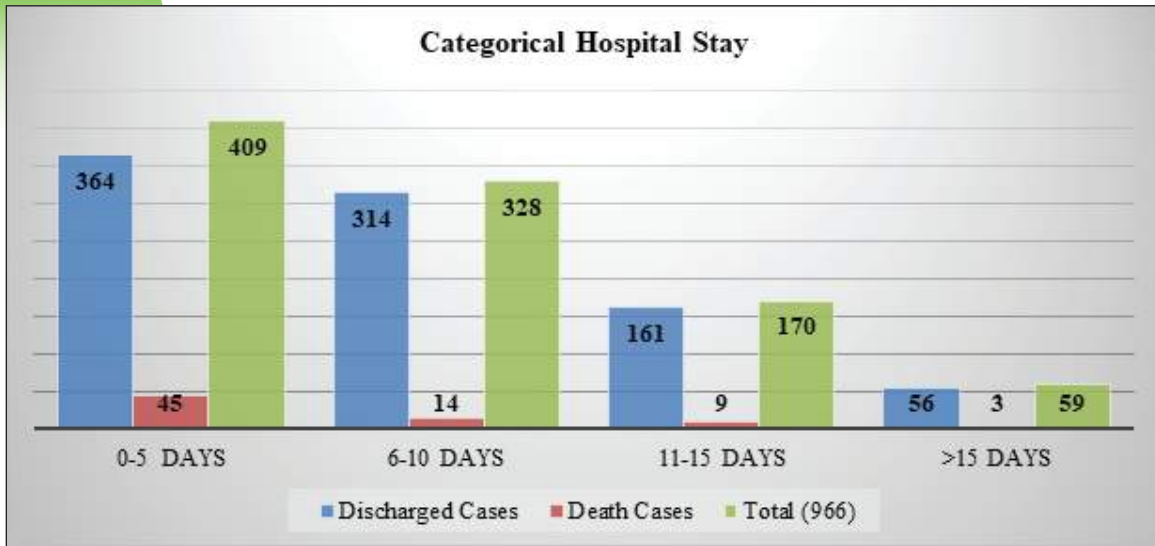


Figure II: Categorical Hospital Stay

Table 5: Distribution of among all Patients Mortality
(From 01 January 2021 to 31 December 2021)

Total death	71
Male	51 (71.8 %)
Female	20 (28.17%)
Death rate	7.35 %

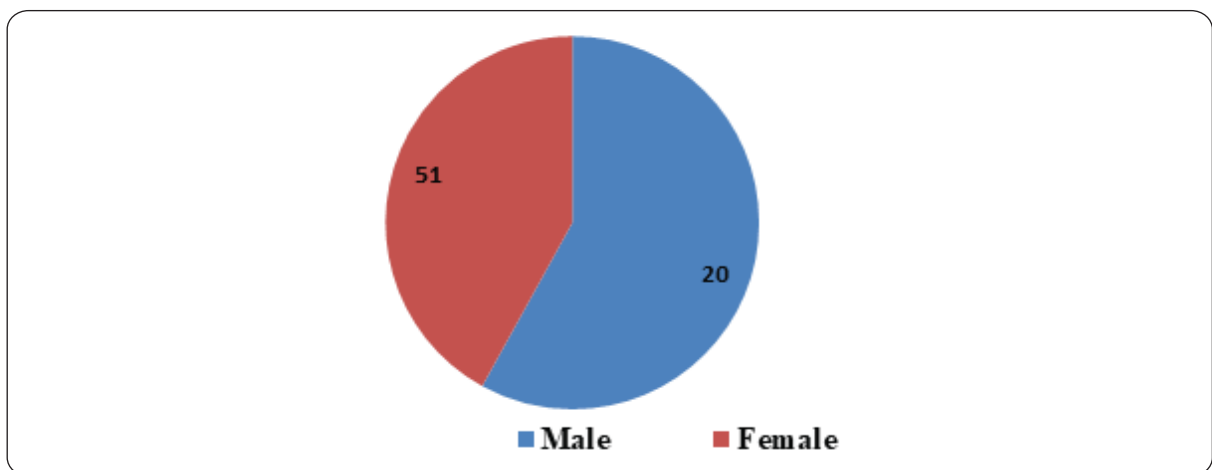


Figure III: Total Number of Death

Neurology (Green Unit)

Table 6: Causes of Death among all Death Cases (From 01 January 2021 to 31 December 2021)

Causes of Death	Male	Female	Total Number (%)
Intracerebral hemorrhage	17	03	20(28.17)
Meningoencephalitis	13	04	17(23.94)
Ischemic Stroke	13	03	16(22.54)
CVST	01	03	04(5.63)
GBS	02	01	03(04.23)
Status Epilepticus	01	01	02(02.82)
Cervical ATM	01	01	02(02.82)
ICSOL	00	02	02(02.82)
Subarachnoid hemorrhage	00	01	01(01.41)
ADEM	01	00	01(01.41)
Metabolic Encephalopathy	01	00	01(01.41)
Sudden cardiac arrest	00	01	01(01.41)
Myasthenia gravis	01	00	01(01.41)
Total	51	20	71

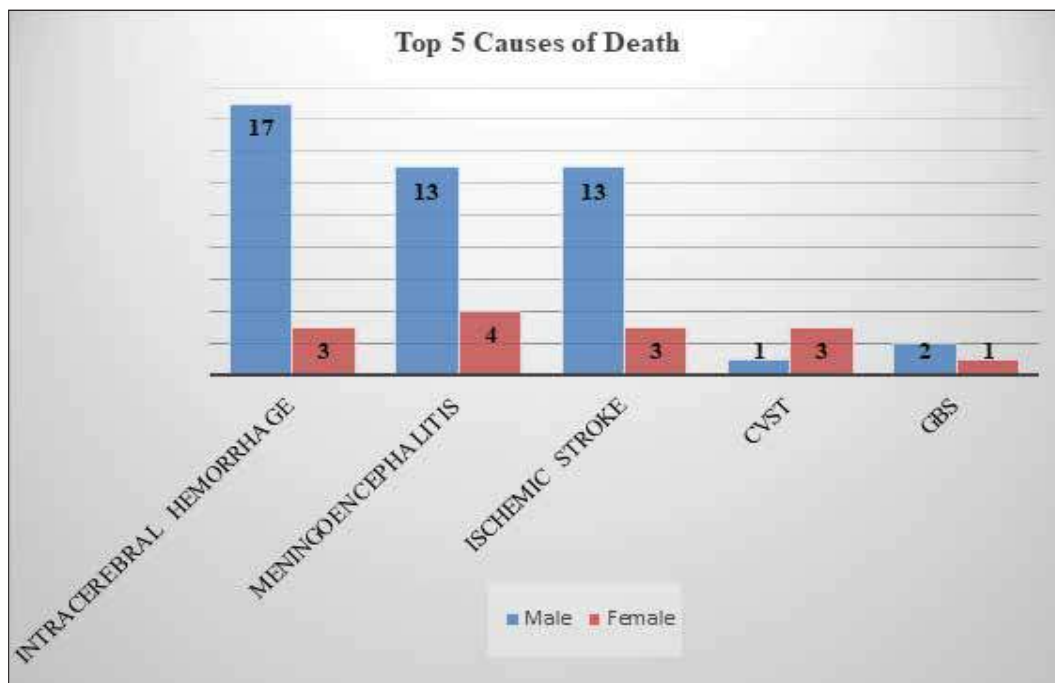


Figure IV: Top 5 Causes of Death

Neurology (Green Unit)

Table 7: Diagnosis Summary of (From 01 January 2021 to 31 December 2021)

Disease	Number of Patients	Gender distribution	
		Male	Female
Stroke and vascular disorders	492(50.93%)	327(66.46%)	165 (33.54%)
Intracerebral Hemorrhage	187 (19.36%)	135 (72.19%)	52 (27.81%)
Ischemic Stroke	211 (21.84%)	151 (71.56%)	60 (28.44%)
Subarachnoid hemorrhage	62 (06.42%)	32 (51.61%)	30 (48.39%)
Arteriovenous malformation	01	00	01
CVST	29	07	22
Moyamoya disease	01	01	00
Ant Ischemic Optic Neuritis (AION)	01	01	00
Neurometabolic diseases (2.07%)			
Wilson's disease	04	04	00
Metabolic Encephalopathy	16	04	12
Infectious disorders (9.73%)			
Meningoencephalitis	67 (6.94%)	41 (61.19%)	26 (38.81%)
CNS Tuberculosis	25 (2.59%)	15 (60%)	10 (40%)
Brain abscess	01	01	00
Septicemia	01	00	01
Neuro-inflammatory & Demyelinating disorders (2.17%)			
ADEM	04	03	01
Multiple Sclerosis	09	04	05
Clinically Isolated Syndrome (CIS)	02	01	01
Optic Neuritis	04	02	02
NMOSD	01	01	00
ODS	01	00	01
Neuro-degenerative Disorders (2.90%)			
Motor Neuron disease	17 (1.76%)	14 (82.35%)	03 (17.65%)
Pseudobulbar palsy	01	01	00
Spinocerebellar Ataxia	01	01	00
Dementia	03	03	00
Parkinson's disease	03	03	00
Cruetzfeldt-Jakob Disease (CJD)	03	03	00
Diseases of Cerebellum (0.72%)			
Cerebellar syndrome	07	04	03

Neurology (Green Unit)

Table 7: Diagnosis (Summary of 01 January 2021 to 31 December 2021)
(From 01 January 2021 to 31 December 2021)

Disease	Number of Patients	Gender distribution	
		Male	Female
Idiopathic	08	06	02
Guillain-Barre-Syndrome	68 (7.04%)	43 (63.24%)	25 (36.76%)
CIDP	03	03	00
Hereditary neuropathy	01	01	00
Cranial neuropathies (0.83%)			
Idiopathic 3rd Nerve palsy	04	03	01
6th Cranial Nerve palsy	01	00	01
Multiple Cranial Nerve palsies	03	01	02
Spinal Cord Disorders (4.66%)			
PLID	02	00	02
ATM	15	10	05
Cervical Myelopathy	04	04	00
Spastic paraparesis	11	11	00
Spastic quadriparesis	13	05	08
Neuromuscular Junction & Muscle Disorders & Channelopathies (1.76%)			
Myasthenia Gravis	13	08	05
Non-Inflammatory Myopathy	02	02	00
Hypokalemic periodic paralysis	01	01	00
Thyrotoxic periodic paralysis	01	01	00
Intracranial mass lesion & raised Intracranial Pressure (3.31%)			
Idiopathic intracranial hypertension	16 (1.66%)	02 (12.5%)	14 (87.5%)
ICSOL	16(1.66%)	13 (81.25%)	03 (18.75%)
Epilepsy or Seizure & related disorders (1.04%)			
GTCS	06	04	02
Status Epilepticus	02	02	00
Post stroke seizure	01	00	01
Progressive myoclonic epilepsy	01	01	00
Miscellaneous (8.80%)			
Post Reversible Encephalopathy Syndrome (PRES)	01	00	01
Acute Confusional State	56 (5.80%)	33 (58.93%)	23 (41.07%)
Electrolyte Imbalance	04	01	03

Neurology (Green Unit)

Table 7: Diagnosis (Summary of 01 January 2021 to 31 December 2021)
(From 01 January 2021 to 31 December 2021)

Disease	Number of Patients	Gender distribution	
		Male	Female
Cavernous sinus syndrome	01	01	00
Toxic optic neuropathy	01	01	00
Tolosa Hunt syndrome	01	01	00
Orbital apex syndrome	02	00	02
Superior orbital fissure syndrome	01	01	00
Sub Dural Hematoma	01	01	00
Leukodystrophy	02	01	01
Pituitary apoplexy	01	01	00
Dystonia due to post-thyroidectomy hypocalcemia	01	01	00
Recurrent hypokalemia due to ACTH dependent Cushing syndrome	01	01	00
Lumbagosciatica	04	03	01
Normal pressure hydrocephalous (NPH)	04	02	02
EPS	01	01	00
Conversion disorder	01	01	00
Spondyloarthropathy (SpA)	02	02	00
Total	966	619	347

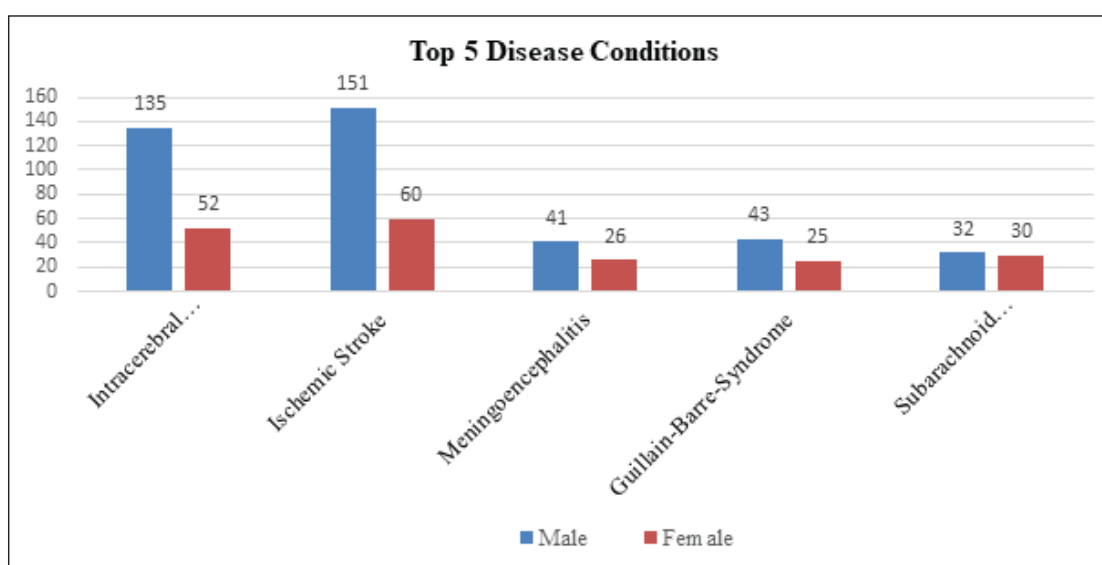


Figure V: Top 5 Disease Conditions

Department of Neurology (Pink Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Sharif Uddin Khan	MBBS, MD (Neurology)	Professor & Unit Head
2	Dr. Rajib Nayan Chowdhury	MBBS, MD, FCPS (Medicine)	Professor
3	Dr. Md. Selim Shahi	MD (Neurology)	Associate Professor
4	Dr. Md. Ferdous Miah	MD (Neurology)	Assistant Professor
5	Dr. Md. Ariful Islam	MD (Neurology)	Assistant Professor
6	Dr. Shahadat Hassan	MD (Neurology)	Registrar
7	Dr. Asif Hassan khan	MD (Rheumatology)	Medical Officer
8	Dr. Sujan shaha	MD (Neurology)	Medical Officer
9	Dr. Sharmin Chowdhury	MD (Endocrinology)	Medical Officer



Neurology (Pink Unit)

Table 2: Summary of Floor wise Indoor Patient Profiles Pink Unit
(01 January 2021 to 31 December 2021)

1. Total Bed Distribution for Pink Unit

Floor	Number of Beds
4th Floor	6
5th Floor	7
6th Floor	4
7th Floor	5
8th Floor	2
Total	24

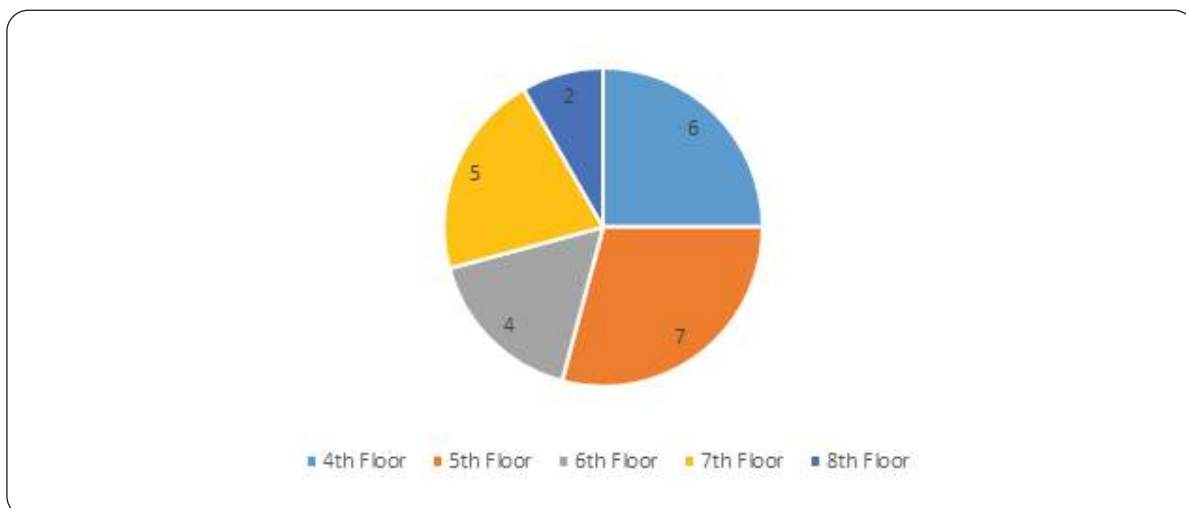


Figure I: Bed Distribution for Pink Unit

Table 3: Frequency of Age group getting admission

Age (In Years)	Frequency	Percent
45 Years	426	(28.45%)
45 – 65 Years	702	(46.66%)
>65 Years	365	(24.66%)

Neurology (Pink Unit)

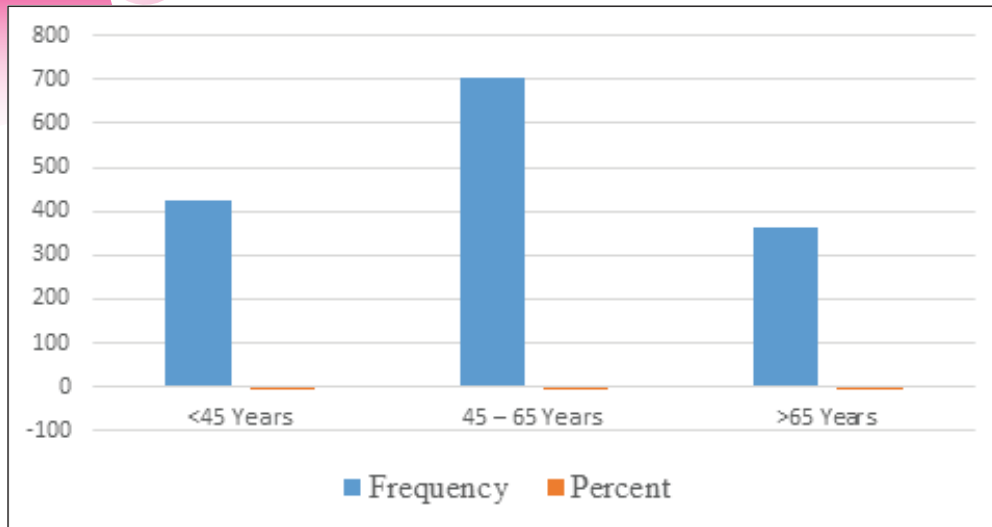


Figure II: Frequency of Age group getting Admission

Table 4: Total Summary of Admission

Total admission	1993 Cases
Male	1155 (58.7%)
Female	817 (41.92%)

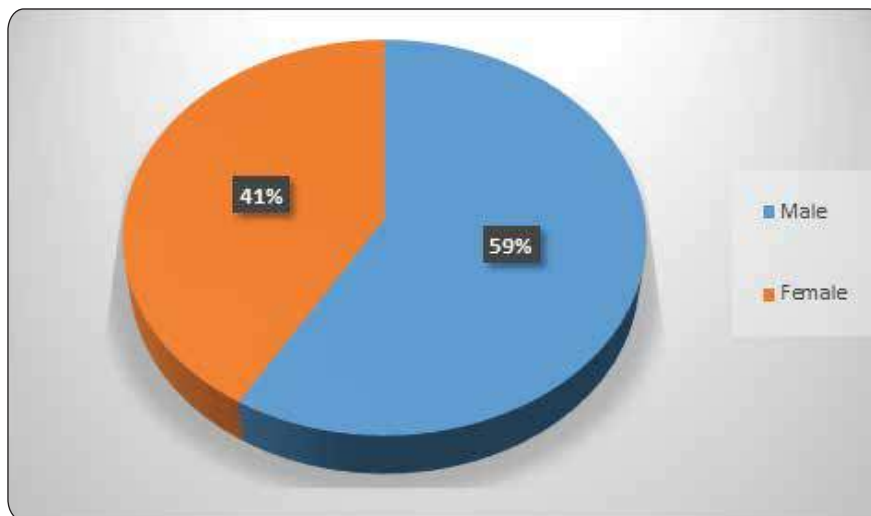


Figure III: Total Summary of Admission

Neurology (Pink Unit)

- Mean age of patients: 52.34±18.23 years
- Male 55.62±17.79 years
- Female 46.97±18.80 years
- Total Death=518
- Total Admission=1183
- Death rate=248/248×100=26.96%
- BOR= 100%
- Mean hospital stay: 8.61±4.69 days
- Total number of admission days: 60

Table 5: Disease wise distribution of patients (From 01 January 2021 to 31 December 2021)

Diseases (System wise)	Sub Types	Gender distribution		Total	Death
		Male	Female		
A) Cerebro Vascular Diseases (1522)	1.Ischemic Stroke	196(58.01%)	138(41.09%)	339(22.5%)	127
	2. ICH	544(57.13%)	411(42.86%)	956(63.38%)	301
	3.CVST	2 (10%)	33(90%)	35 (2.53%)	4
	4. AVM	10(42.85%)	5(57.15%)	15(0.59%)	1
	5. SAH	117(63.51%)	65 (36.49%)	198 (13.06%)	67
	8. Aneurysm	9(66.67%)	6(33.33%)	15(0.25%)	0
B) Inflammatory /Demyelinating Diseases (36)	1.Optic Neuritis	4(40%)	7(60%)	11 (0.42%)	
	2.Multiple Sclerosis	4(40%)	6(60%)	10(0.76%)	
	4.ADEM	6 (65%)	4(35%)	11(0.50%)	1
	5.NMO Spectrum Disorders	3(40%)	3 (60%)	6(0.42%)	
C) Neuropathies (91)	1.GBS	37 (58.82%)	28(41.18%)	65(4.64%)	2
	2.CIDP	12(70%)	3 (30%)	15(0.19%)	
	3.Hereditary Neuropathy	3 (90%)	1(10%)	4(0.2%)	
	4. Plexopathy	3(100%)	0 (0%)	3(0.24%)	
	5. Cranial neuropathy	5 (66.66%)	2(33.33%)	7(0.24%)	1
D) Metabolic (18)	Metabolic Encephalopathy	7(55%)	6(45%)	13(0.67%)	
	Pseudohypoparathyroidism	1(25%)		1(2%)	
	Vitmin D deficiency	1(100%)	0(0%)	1(0.08%)	
	Willson's Disease	3(50%)	1(50%)	4(0.16%)	

Neurology (Pink Unit)

Table 5: Disease wise distribution of patients (From 01 January 2021 to 31 December 2021)

Diseases (System wise)	Sub Types	Gender distribution		Total	Death
		Male	Female		
E) Infectious Diseases (142)	1.CNS TB	7(67.64%)	6(32.35%)	13 (13.8%)	3
	2.Meningoencephalitis	62(61.62%)	58(38.37%)	112(78.26%)	7
	3. Brain abscess	4 (80.00%)	1(20.00%)	5(0.422%)	1
	4.Pyogenic Meningitis	6(75%)	2(25%)	8(0.67%)	1
	5.Postencephalitis syndrome	2 (66.66%)	1(33.33%)	3(0.25%)	
F) Degenerative Diseases (27)	1.CNS TB	9 (63.63%)	3(36.36%)	13(56.98%)	1
	2.Meningoencephalitis	3(60%)	2 (40%)	7 (20.42%)	
	3. Brain abscess	5(55.56%)	4(44.44%)	9 (17.76%)	
G) Myelopathies (56)	4.Pyogenic Meningitis				
	5.Postencephalitis syndrome	12(62.5%)	6(37.5%)	18(0.67%)	
	1.CNS TB	2 (100%)	0 (0%)	2 (0.08%)	
	2.Meningoencephalitis	3 (100%)	1(0%)	4(0.32%)	1
	3. Brain abscess	2(66.66%)	1(33.33%)	3 (0.24%)	
	4.Pyogenic Meningitis				
	5.Postencephalitis syndrome	18(58.33%)	15(41.66%)	33(63.01%)	
H) NMJ Disorders (25)	1.CNS TB	14(46%)	11 (44%)	25(2.11%)	1
I) Myopathy (20)	2.Meningoencephalitis	0(0%)	2 (100%)	2 (12.16%)	
	3. Brain abscess	1(50%)	1 (50%)	2(14.16%)	
	4.Pyogenic Meningitis	4(66.66%)	2(33.33%)	15(73.32%)	
	5.Postencephalitis syndrome	1(0%)	(100%)	1(0.08%)	
	1.CNS TB	1(100%)	0(0%)	1(0.08%)	
J) Miscellaneous (61)	3. Brain abscess	4(8.57%)	38(91.42%)	42(2.95%)	
	4.Pyogenic Meningitis	2 (66.66%)	1(33.33%)	3 (0.24%)	1
	5.Postencephalitis syndrome	1(33.3%)	2(66.66%)	3(0.24%)	
	1.CNS TB	0 (0%)	4 (100%)	5(0.16%)	
	2.Meningoencephalitis	5 (33.33%)	8 (66.66%)	13(0.24%)	1
	3. Brain abscess	3 (75%)	1(25%)	4(0.32%)	

Neurology (Pink Unit)

Table 6: Causes of mortality (From 01 January 2021 to 31 December 2021)

Disease	Male	Female
Intracerebral hemorrhage	155	146
Ischemic Stroke	71	56
SAH	36	30
TBM	0	3
Encephalitis	8	7
MND	1	0
GBS	2	2
ADEM	1	0
Myasthenia	0	2
Others	5	3
Total	279	518

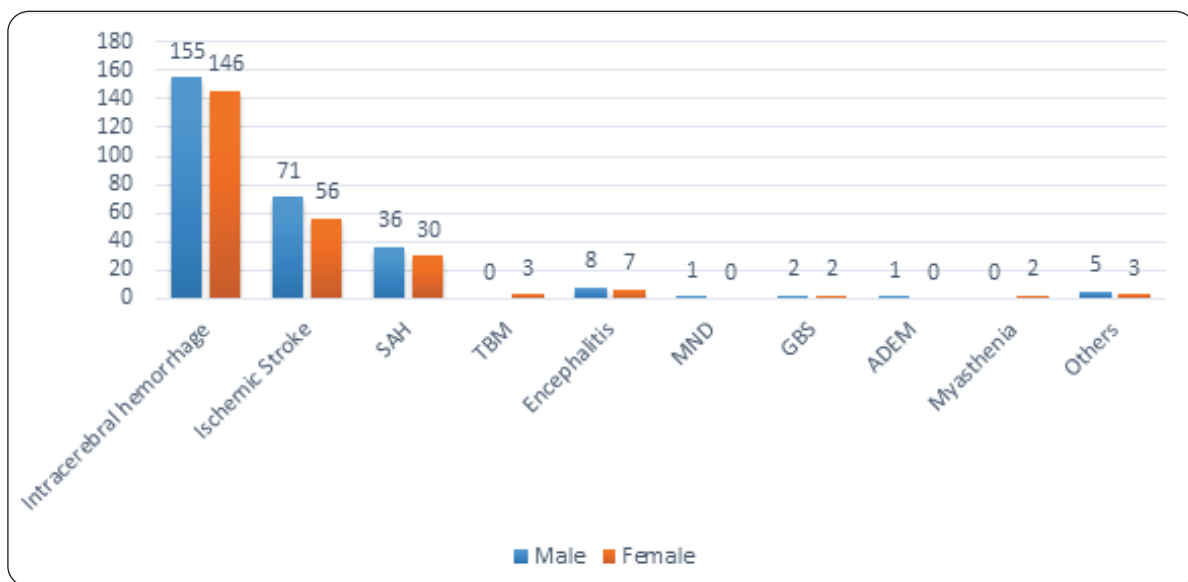


Figure IV: Causes of Mortality

Neurology (Pink Unit)

Table 7: ICU Patients of Pink Unit (From 01 January 2021 to 31 December 2021)

Total Admission	82 Cases
Female	49
Male	33

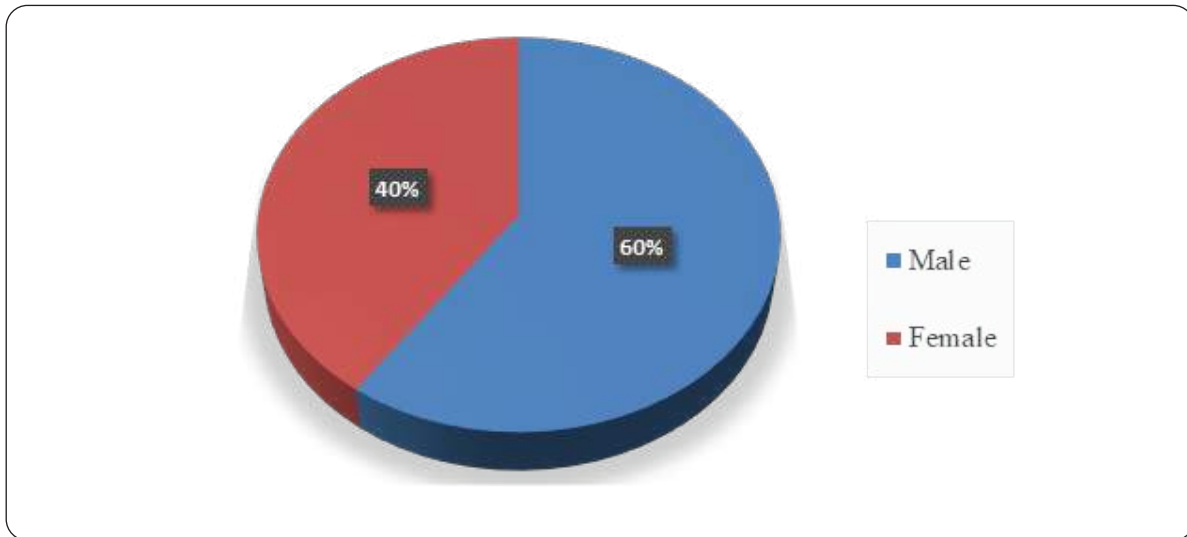


Figure V: Total Admission ICU Male & Female (Pink Unit)

Cured = 76

Death = 6

DOBR = 0

Table 8: Disease wise distribution of ICU patients of Pink unit

(From 01 January 2021 to 31 December 2021)

Diseases	Total Patients	Cured	Death	DORB
GBS	36	32	4	0
SAH	17	15	2	0
Myasthenia Gravis	12	11	1	0
ICH	6	5	1	0
Ischemic Stroke	4	1	0	0
Status Epilepticus	2	2	0	0
Infection	4	1	0	0
Moya moya	1	0	1	0
Total	82	70	9	0

Neurology (Pink Unit)

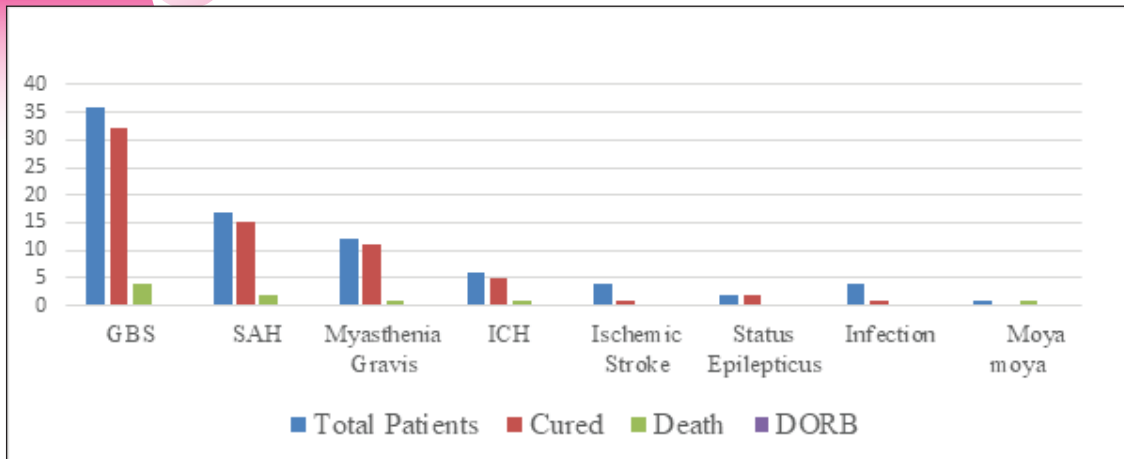


Figure VI: Total Admission ICU Male & Female (Pink Unit)

Table 9: Disease wise death rate of indoor patients (From 01 January 2021 to 31 December 2021)

Diseases	Death rate (%)
Ischemic Stroke	23.00%
ICH	33.92%
CVST	0.59%
SAH	28.96%
GBS	0.59%
CNS TB	2.39%
Meningoencephalitis	6.58%
MND	0.59
ADEM	0.59
AVM	0.59

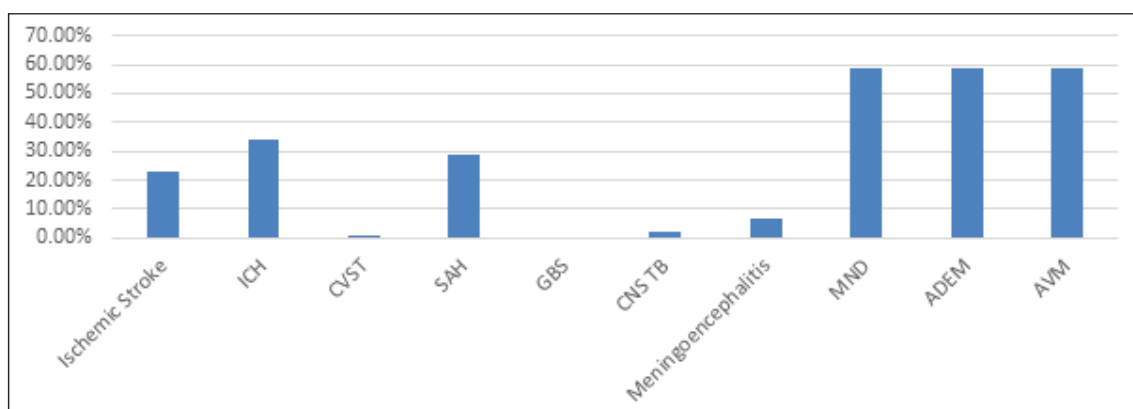


Figure VII: Disease wise Death rate of Indoor Patients

Neurology (Pink Unit)

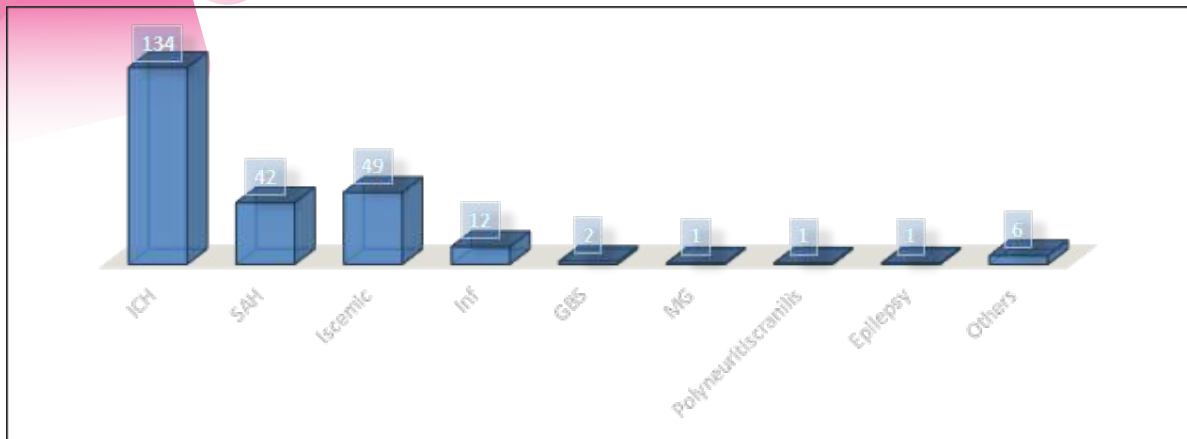


Figure VIII: Total Death in each Disease

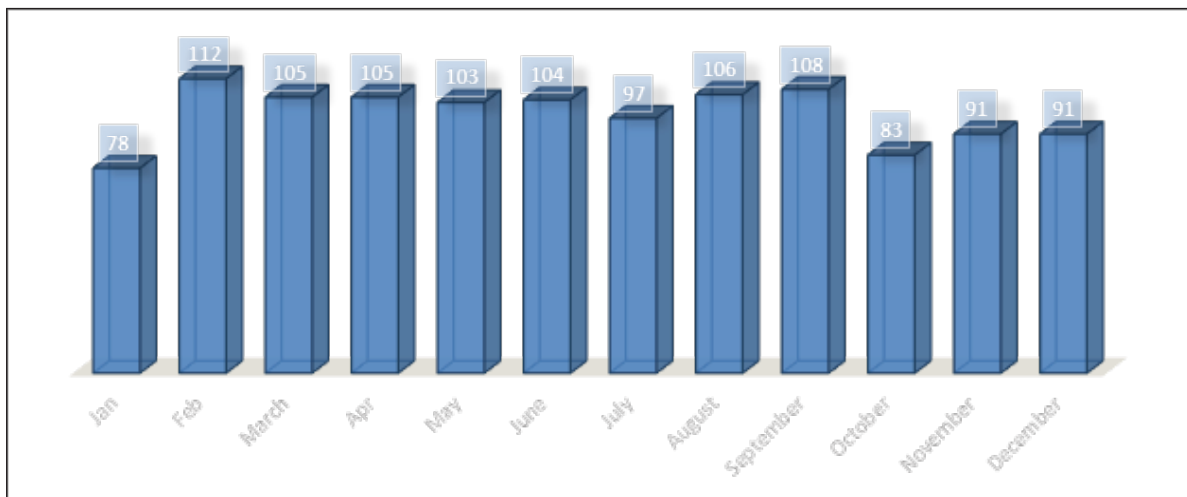


Figure IX: Admission in each month

Research summary 2021 (Progress of research work 2020)

- Clinical pattern and short term outcome of spontaneous ruptured subarachnoid hemorrhage
- Pre and postoperative pituitary hormone evaluation in pituitary tumor admitted in neuroscience hospital
- Loss of conscious as a prognostic marker for spontaneous subarachnoid hemorrhage patient

Neurology (Pink Unit)

Table 10: Total Month wise Disease Pattern (01 January 2021 to 31 December 2021)

Disease	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	total
ICH	10	20	16	15	12	9	8	7	8	11	14	12	138
SAH	4	4	4	3	4	4	4	2	2	2	3	3	33
Ischemic Stroke	4	3	6	2	0	7	3	4	4	4	4	6	42
Infection	3	0	1	1	1	0	1	2	0	1	1	0	9
GBS	0	0	0	0	0	0	0	1	0	0	0	0	1
MG	0	0	0	0	0	0	1	0	0	0	0	0	1
Polyneuritis	0	0	0	0	0	0	0	0	0	0	0	1	1
Epilepsy	0	1	0	0	0	0	0	0	0	0	0	0	1
Others	1	2	0	0	1	0	0	1	0	0	0	0	4
Total	20	30	25	20	16	20	15	17	10	18	22	21	227

Table 11: Total Month wise Disease Pattern (01 January 2021 to 31 December 2021)

Disease	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Total
ICH	10	12	16	15	12	9	8	7	8	11	14	12	134
SAH	4	4	3	3	4	4	4	2	2	2	3	3	38
Ischemic	4	3	6	2	0	7	3	4	4	4	4	6	47
Inf	3	0	1	1	1	0	1	2	1	1	1	0	12
GBS	0	0	1	0	0	0	0	1	0	0	0	0	2
MG	0	0	0	0	0	0	1	0	0	0	0	0	1
Polyneuritis	0	0	0	0	0	0	0	0	0	0	0	1	1
Epilepsy	0	1	0	0	0	0	0	0	0	0	0	0	1
Others	1	2	0	1	0	0	1	1	0	0	0	0	6
	22	22	27	22	17	20	18	17	15	18	22	22	242

Department of Pediatric Neurology



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Narayan Chandra Saha	FCPS	Professor & Head
2	Dr. Sk. Azimul Hoque	MD	Associate professor
3	Dr. Ariful Islam	MD	Associate professor
4	Dr. Yamin Shahriar Chowdhury	MD	Associate professor
5	Dr. Nazmul Haque	FCPS, MD	Assistant professor
6	Dr. Bithi Debnath	FCPS	Assistant professor
7	Dr. Mohammad Monir Hossain	FCPS, MD	Assistant professor
8	Dr. Banita Mistry	FCPS	Assistant professor
9	Dr. Mst. Shamim Ara Begum	FCPS	Assistant professor



Pediatric Neurology

Table 1: List of the Faculty's

SL. No	Name	Degree	Designation
10	Dr. Shyamal Sarker	FCPS	Junior Consultant
11	Dr. Mahua Chandra	FCPS	Junior Consultant
12	Dr. Jobaida Parvin	FCPS	Junior Consultant
13	Dr. Shamsun Nahar Sumi	FCPS	Junior Consultant
14	Dr. Mushtab Shira Mousumi	FCPS	Junior Consultant
15	Dr. Farzana Binte Rashid	FCPS	Junior Consultant
16	Dr. Sufia Khatun	MD	Junior Consultant
17	Dr. Md. Shahjahan Chowdhury	FCPS	Junior Consultant
18	Dr. Md. Alauddin	FCPS	Junior Consultant
19	Dr. Sharmin Hossain	-	Junior Consultant
20	Dr. Ahmed Hossain	FCPS	Medical Officer

Table 2: List of Students of (FCPS-Pediatric Neurology & Development Sub-Specialty)

SL. No	Name	Degree	Designation
1	Dr. Dipa Saha	Student	Non-Govt.
2	Dr. Razia Sultana	Student	Non-Govt.
3	Dr. Hosne Ara Khan	Assistant professor	Govt.
4	Dr. Nusrat Shams	Junior Consultant	Govt.
5	Dr. Mohshin	Junior Consultant	Govt.
6	Dr. Ferdousi Hossain	Junior Consultant	Govt.
7	Dr. Maidul Hossain Rumi	Junior Consultant	Govt.
8	Dr. Anisur Rashid	Assistant professor	Govt.
9	Dr. Tithi Islam	Junior Consultant	Govt.
10	Dr. Fouzia Nahid	Student	Non-Govt.
11	Dr. Romana Akter (Happy)	Junior Consultant	Govt.
12	Dr. Laisa Yasmin	Junior Consultant	Govt.
13	Dr. Masiur Rahman	Junior Consultant	Govt.
14	Dr. Humayun Shahed	Junior Consultant	Govt.

Pediatric Neurology

• Activities of the Department

1. Out Patient Department (OPD) Service
2. Inpatient department Service
3. Botox Clinic
4. Psychological Assessment Division
5. 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

Research Activities

- **Out Patient Department (OPD) Service**
 - Duration of OPD patient care (In hours per week) – 39 hours.
 - Number of patients attending the OPD per day – 100-120/day
 - Everyday complicated and referred patients are seen by senior faculties

Table 3: Disease Profiles of the OPD Patients (n=26,893)

(From 01 January 2021 to 31 December 2021)

Disease	Frequency	Percent
Epilepsy	10,211	37.97
Headache	4,681	17.41
Developmental Brain Disorder	781	2.90
Developmental Delay	560	2.08
Neurometabolic Disorder	1056	3.93
NDD	155	0.58
CP	2,560	9.52
CNS Infection	1,216	4.52
Movement Disorder	277	1.03
Myopathy	121	0.45
Neuromuscular Disorder	74	0.28
Neural Tube Defect	132	0.49
NEAD	97	0.36
Neurocutaneous Syndrome	168	0.62

Pediatric Neurology

Table 3: Disease Profiles of the OPD Patients (n=23,786)

(From 01 January 2021 to 31 December 2021)

Disease	Frequency	Percent
ID	1,125	4.18
ASD	525	1.95
ADHD	821	3.05
ICSOL	155	0.58
Syndromic Child	23	0.09
ASS	312	1.16
Febrile Seizure	192	0.71
Hydrocephalous	91	0.34
Non-Neurological Disease	1,057	3.93
Others	503	1.87

Table 4: Disease Profiles of the IPD patients (n=733)

(From 01 January 2021 to 31 December 2021)

Disease	No. of Patients	Percent
Auto Immune Encephalitis	28	3.82
Cerebral Palsy (CP)	29	3.96
Wilson Disease	13	1.77
Stroke	38	5.18
Epilepsy	261	35.61
NEAD	16	2.18
NMO-SD	24	3.27
ADEM	7	0.95
ICSOL	49	6.68
IIH	18	2.46
Neuro Metabolic Disorder	15	2.05
Achondroplasia	12	1.64
TBM	20	2.73
ASS	16	2.18
ATM	13	1.77
GBS	23	3.14

Pediatric Neurology

Table 4: Disease Profiles of the IPD patients (n=733)
(From 01 January 2021 to 31 December 2021)

Disease	Frequency	Percent
TOF	11	1.50
Somatoform	04	0.55
Developmental Delay	07	0.95
SSPE	09	1.23
Brain Abscess	11	1.50
Meningo-Encephalitis	10	1.36
Post Encephalitis Sequelae	7	0.95
Meningitis	15	2.05
CHD	03	0.41
Conversion disorder	02	0.27
Traumatic Brain Injury	01	0.14
Moya Moya Disease	12	1.64
Others	59	8.05

Deficiencies:

- Absence of a
 - Child Development Centre (CDC)
 - Children's play corner
 - Breast feeding corner
 - Dietary epilepsy management Centre
- Insufficient spaces in the OPD

Recommendations:

- To increase the manpower of the department for providing better healthcare and academic activities.
- To increase the number of nonpaying beds for expanding the indoor services.
- To establish new unit.
- 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.
- Basic Neurometabolic Screening test facilities
- TMS for organ flam
- Urine for Organic acid test facilities
- Qualitative Amino acid stimulation in Blood/CSF/Urine
- Neuro genetic & Neuro metabolic lab

Department of Neuro Anaesthesia



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Tanvir Alam	MBBS.MD	Associate Professor
2	Dr. Kazi Nur Asfia	MBBS, MD, DA	Assistant Professor
3	Dr. Aminul Hasanat	MBBS, MD	Assistant Professor
4	Dr. Md. Abdul Quddus Mia	MBBS, DA	Assistant Professor
5	Dr. Md. Abdul Karim Miah	MBBS, DA, FCPS	Assistant Professor
6	Dr. AZM Saifuddin Ahmed	MBBS, DA	Assistant Professor
7	Dr. M. Shamsul Arefin	MBBS, DA, MD	Junior Consultant
8	Dr. Farhanaz Zainab	MBBS, DA, FCPS	Junior Consultant
9	Dr. Kurshid Parvez	MBBS, PGT	Register
10	Dr. Samia Anwar	MBBS, PGT	Medical Officer
11	Dr. Tanjila Rahman Tonnee	MBBS, DA	Indoor Medical officer



Neuro Anaesthesia

Services:

1. Operation:

- Routine -6 days in a weak.
- Emergency -24 hours.

2. Pre- anaesthetic Check-up.

3. Post-Operative management.

4. Others duties:

- Rhyles tube insertion
- Central venous Catheterization.
- Lumber Puncher.
- Endotracheal Intubation



Table 2: Patient Profiles (From 01 January 2021 to 31 December 2021)

Name of Operation	Name of months												Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	
Craniotomy	50	56	47	52	55	48	61	63	77	61	71	63	704
Clipping of Aneurysm	23	19	25	18	18	21	09	23	17	24	19	32	248
Trans Sphenoidal removal of Pituitary SOL	09	03	02	01	05	08	08	08	08	06	11	12	81
V-P Shunt	13	13	22	09	17	14	14	10	13	09	10	13	157
Burr Hole	08	09	15	25	25	25	29	26	21	36	32	14	265
EVD	03	05	04	-	02	04	10	03	07	02	01	04	45
ETV	03	03	04	03	06	01	05	-	03	06	01	03	38
EDAS	06	02	01	01	01	01	-	-	03	01	06	-	22
Myelomeningocele Repair	05	03	04	05	01	04	01	02	07	01	04	05	42
Encephalocele Repair	02	-	01	-	-	-	01	-	01	-	01	-	06
Re- Exploration	05	06	04	05	07	01	08	03	03	08	06	01	57
Decompressive Craniectomy	02	03	02	03	01	01	01	03	01	03	-	01	21
Cranioplasty	01	01	02	01	02	03	-	03	05	04	-	02	24
Chiari Malformation Correction	-	03	-	-	01	01	-	-	-	-	01	01	07
Optic Nerve Fenestration	01	-	01	01	-	01	-	01	01	01	02	01	10

Neuro Anaesthesia

Table 2: Patient Profiles (From 01 January 2021 to 31 December 2021)

Name of Operation	Name of months												Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	
Microvascular Decompression for Trigeminal Neuralgia	-	-	-	-	-	-	02	-	-	02	03	02	09
AVM	-	-	-	02	-	04	-	02	02	02	02	06	20
EC-IC Bypass	-	-	-	-	03	01	02	02	01	03	04	03	18
Removal of Depressed Fractured Skull Bone	-	-	02	09	12	06	06	05	04	03	03	-	50
Strip Craniotomy		01	01	-	-	-	-	01	-	-	-	-	03
ACDF	08	01	07	04	06	03	02	12	15	16	08	08	90
F & D	13	09	13	15	14	10	09	17	17	13	18	15	163
Decompression & Stabilization	06 13	02	-	02	05	-	10	09	10	04	08	08	64
Spinal SOL Removal		10	11	10	10	07	03	07	04	05	06	11	97
Atlanto-Axial Dislocation (AAD) Correction	01 06	02	05	03	01	-	03	-	-	02	01	-	18
CTS Repair		01	03	04	-	03	01	02	07	02	02	03	34
Others	09	14	17	13	12	10	11	12	13	11	12	11	145
Neuro intervention /Cath lab Procedures	15	09	14	07	05	10	11	12	18	14	12	20	147
MRI	45	46	45	31	38	67	28	53	53	40	61	31	538
Total Number of Anesthesia												3123	



Neuro Anaesthesia

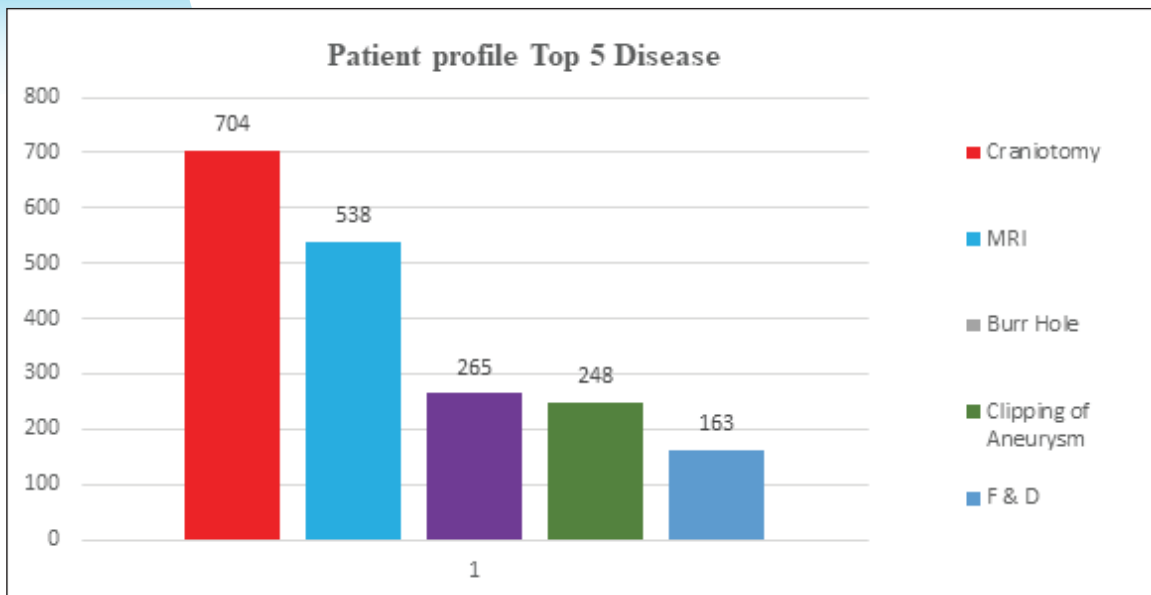


Figure I: Patient profile Top 5 Disease

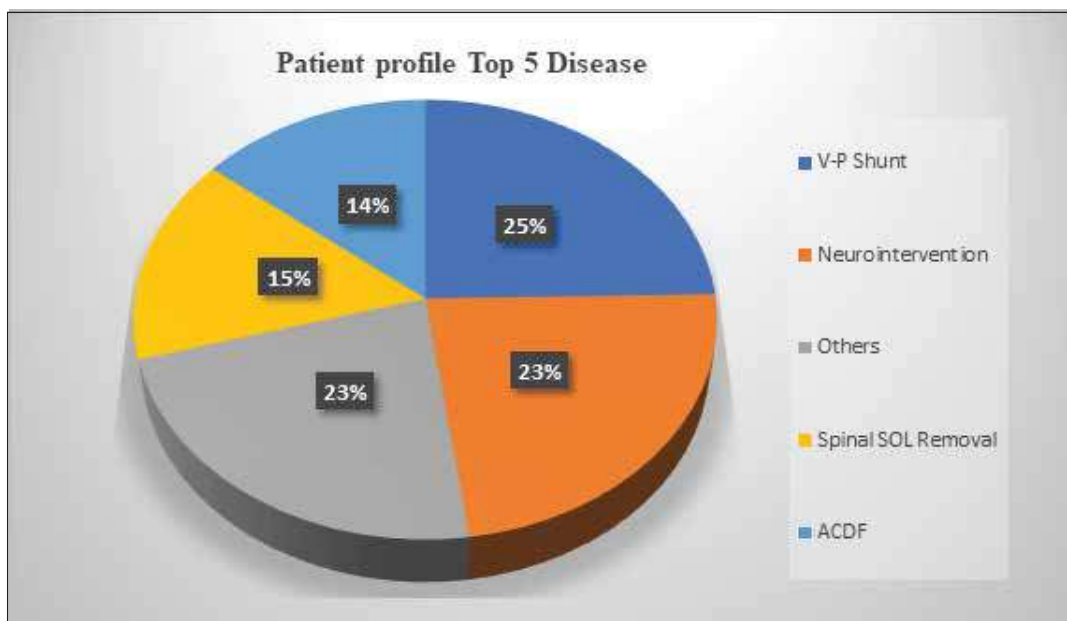


Figure II: Patient profile Top 5 Disease

Department of Neurology Interventional



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Kazi Mohibur Rahman	MD	Professor & Head
2	Prof. Dr. Sharif Uddin Khan	MD	Professor
3	Dr. Sirajee Shariful Islam	MD	Associate Professor
4	Dr. Dewan Md. Elyas	MD	Assistant Professor
5	Dr. Muhammad Abdul Momen Khan	MD	Assistant Professor
6	Dr. Amir Hossain	FCPS, MD	Assistant Professor
7	Dr. Hasibul Hasan Porag	MD, MCPS	Assistant Professor
8	Dr. Mohammad Habibur Rahman	MD	Assistant Professor
9	Dr. Bakhtial Azam	MD	Assistant Professor
10	Dr. Karimul Islam	MD	Medical Officer



Neurology Interventional

Introduction

- Interventional Neurology started its journey since the inauguration of NINS in 2013. But the major millstone was the formation independent units on 12.11.2017 with the dynamic guidance of Prof. Dr. Quazi Deen Mohammad and Prof. Dr. Badrul Alam Sir.
- Two independent units are now Operational.
- Unite white is headed by Dr. Kazi Mohibr Rahman
- Unit Violate is headed by Dr. Sharif Uddin Khan

Table 2: Supporting Staff of the Department

SL. No	Position	Number
1	Professor	2
2	Associate Professor	1
3	Assistant Professor	6
4	Register	0
5	Medical Officer	2
6	Staff Nurse	3
7	Interventional Technician	3
7	Ward Boy	2
8	Aya	1
9	Cleaner	2
10	Unit	2
11	Bed	11

Table 3: Disease Profile (From 01 January 2021 to 31 December 2021)

Total Number of Patients Admitted	629
Diagnostic	481
Therapeutic	148

Neurology Interventional

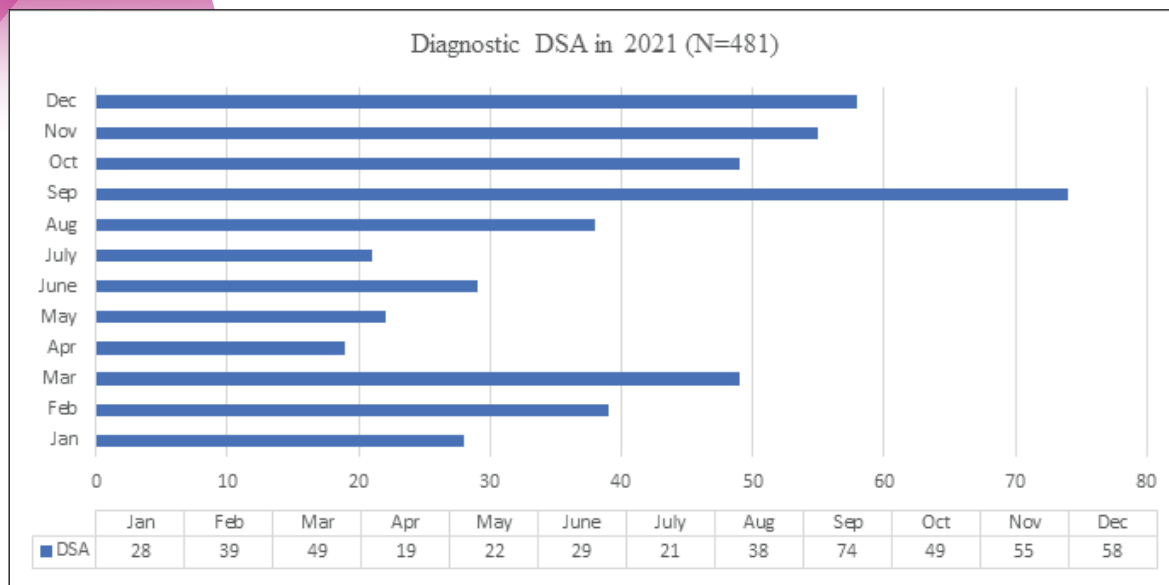


Figure I: Diagnostic DSA in 2021 (N=481)

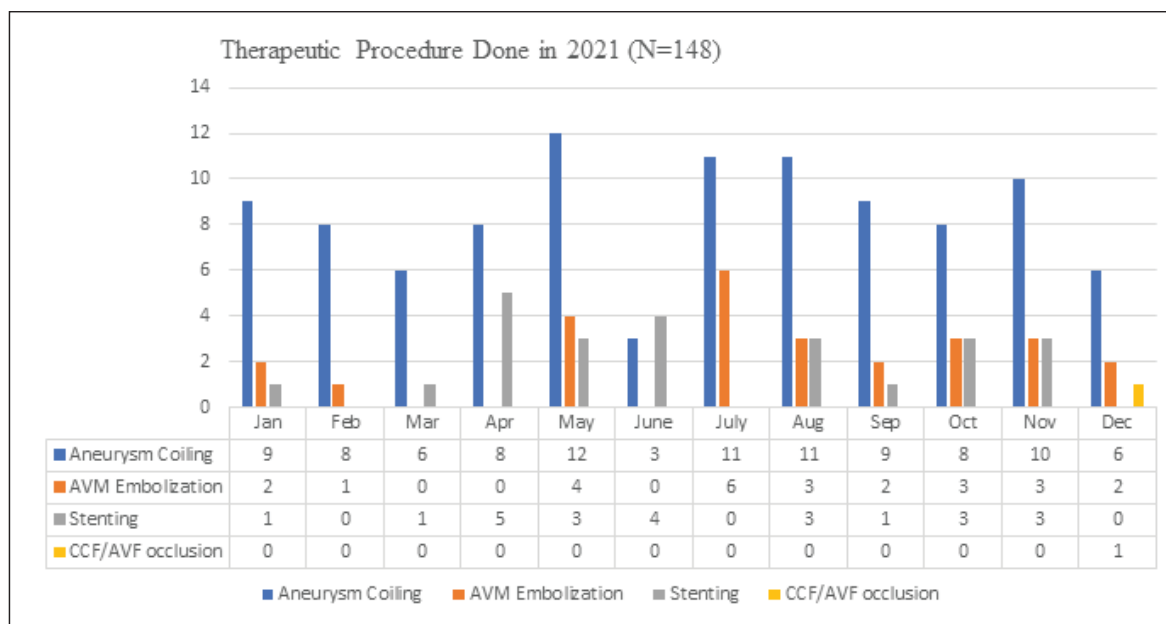


Figure II: Therapeutic Procedure Done in 2021 (N=148)

Department of Neuro-Physiology



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Rajib Nayan Chowdhury	MBBS, MCPS (M), FCPS (Medicine) MD (Neurology)	Professor and Head
2	Dr. Md. Enayet Hussain	MBBS, FCPS (Medicine), MD (Neurology) Fellowship in EEG & Epilepsy	Associate Professor
3	Dr. Md. Nahidul Islam	MBBS, MD (Neurology)	Assistant Professor
4	Dr. Md. Ferdous Mian	MBBS, MD (Neurology)	Assistant Professor
5	Dr. A. F.M. Al Masum Khan	MBBS, MD (Neurology) Fellowship in Epilepsy & EEG	Assistant Professor



Neuro-Physiology



Table 2: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Yamin Shahriar Chowdhury	MBBS, MD (Paediatrics)	Assistant Professor
2	Dr. Banita Mistry	MBBS, FCPS (Pediatric) FCPS (Paediatric Neurology)	Assistant Professor
3	Dr. Most. Samsun Nahar Sumi	MBBS, FCPS (Pediatric) FCPS (Paediatric Neurology)	Junior Consultant

Neuro-Physiology



Table 3: Supporting Staff of the Departments

SL. No	Name	Designation
1	Shamima Khanom	Technician
2	Rabeya	Technician
3	Rowshan Hawlader	Technician
4	Anukul Banarje	Technician
5	Shompa Akther	Technician
6	Masuda Akther	Technician
7	Uzzal Mia	Technician

Service Activities

1. Clinical Activities:

- A. Indoor service
- B. Outdoor service: Specialized Clinic
 - Epilepsy Clinic: Room No: 105A, Thursday (08:30am to 01:00 pm)
 - Neuromuscular disorder Clinic: Room No: 105A, Thursday (08:0 am to 01:00 pm)

Neuro-Physiology

Service Activities

2. Neurophysiological Laboratory Tests:

- A. Electroencephalography (EEG)
- B. Nerve conduction Study (NCS):
 - Motor conduction study (MCS)
 - Sensory conduction study (SCS)
 - F-Response
 - H-Reflex
 - Repetitive Nerve Stimulations (RNS)
 - Blink response
- C. Electromyography (EMG)
- D. Evoked potentials
 - Visual evoked potential (VEP)
 - Somatosensory evoked potentials (SEP)

3. Academic activities:

Teaching MD/MS residents and FCPS students

4. Clinical Neurophysiological Trainings (Hands On):

- A. For Doctors: Two sessions per year
 - EEG Track (Training on Clinical EEG and Epilepsy): 06 months
 - EMG Track (Training on Clinical neurophysiology for neuromuscular disorder): 06 months
- B. For Operators: Four sessions per year
 - NCS, EMG and EPs: 03months
 - EEG: 03 months

5. Research and publications:

1. Estimation of normal values for Nerve Conduction Study among healthy Bangladeshi adults.

Mohammad Enayet Hussain, Rajib Nayan Chowdhury, AFM Al Masum Khan, Md. Ferdous Mian, Md. Nahidul Islam, Md. Yusuf Abdullah, Bithi Debnath, Most. Samsunnahar Shumi, Banita Mistry, Yamin Shahriar Chowdhury

Neuro-Physiology

Table 4: Trained Personnel from NINS Training Doctor list (01 January to 31 December 2021)

SL. No	Name and Details	Subject on Training	Training Period
1	Dr. Mohammad Saiful Islam MD student Phase-B (Neurology)	Neurophysiology Residence	01.01.2021- 28.02.2021
2	Dr. Swapan Kumar Ray MD student Phase-B (Neurology)	Neurophysiology Residence	01.01.2021- 28.02.2021
3	Dr. S. M Hasan Shahriar MBBS, MRCP (UK) MRCP (Neurology) Consultant (Neurology), United Hospital, Dhaka	EMG Track (Neuro- muscular Disorder)	01.01.2021- 30.06.2021
4	Dr. Md. Nazmul Haque MBBS. MD (Neurology) Assistant Register (Medicine) 250 Beded Mohammad Ali Hospital, Bogra.	EEG Track (EEG & Epilepsy)	01.01.2021- 30.06.2021
5	Dr. Rashed Imam Zahid (Kollo) MBBS. MD (Neurology) Assistant Professor (Neurology) National Institute of Neurosciences & Hospital	EEG Track (EEG & Epilepsy)	01.01.2021- 30.06.2021
6	Dr. Rahatun Nayeem (Meglin) MBBS, FCPS (Medicine) FCPS student (Neurology)	Neurophysiology	01.03.2021- 30.04.2021
7	Lt. Col. Dr. Ghulam Kawnayn MBBS, FCPS (Medicine) FCPS student (Neurology)	Neurophysiology	01.07.2021- 31.08.2021
8	Dr. Pallab Kanti Saha MBBS. MD (Neurology) Assistant Professor (Neurology) Sir Salimullah Medical College & Hospital, Dhaka	EMG Track (Neuro- muscular Disorder)	01.07.2021- 31.12.2021
9	Dr. Mohammad Moshir Rahman MBBS. MD (Neurology) Assistant Professor (Neurology) Sir Salimullah Medical College & Hospital, Dhaka	EEG Track (EEG & Epilepsy)	01.07.2021- 31.12.2021
10	Dr. Mosammat Shameem Ara Begum Assistant Professor (Pediatric) National Institute of Neurosciences & Hospital	EEG Track (EEG & Epilepsy)	01.07.2021- 31.12.2021

Neuro-Physiology

Table 4: Trained Personnel from NINS Training Doctor list (01 January to 31 December 2021)

SL. No	Name and Details	Subject on Training	Training Period
11	Dr. K.M Ahasan Ahmed MBBS, FCPS (Medicine) FCPS (Neurology) Junior Consultant National Institute of Neurosciences & Hospital	EMG Track (Neuro-muscular Disorder)	01.08.2021-31.01.2022
12	Dr. Md. Zakirul Islam MBBS, FCPS (Medicine) MD (Neurology) Assistant Professor (Medicine) Kurmitola General Hospital, Dhaka	EMG Track (Neuro-muscular Disorder)	01.08.2021-31.01.2022
13	Dr. Ferdousi Hossain Poly MBBS, FCPS(Pediatric) FCPS Student (Pediatric Neurology)	Neurophysiology	01.10.2021-15.11.2021
14	Dr. Rumi Myedull Hossain MBBS, FCPS(Pediatric) FCPS Student (Pediatric Neurology)	Neurophysiology	01.10.2021-15.11.2021
15	Dr. Sorrare Hossain MBBS, FCPS(Pediatric) FCPS Student (Pediatric Neurology)	Neurophysiology	16.11.2021-30.12.2021
16	Dr. Md. Rafiul Hasan MD student Phase-B (Neurology)	Neurophysiology Residence	01.12.2021-15.01.2021
17	Dr. Md. Hasan Ali MD student Phase-B (Neurology)	Neurophysiology Residence	01.12.2021-15.01.2021

Neuro-Physiology

Table 5: Month Wise Number of tests: (01 January to 31 December 2021)

MONTH	NCS & EMG	EEG
January	199	160
February	201	164
March	220	171
April	84	76
May	93	71
June	193	187
July	98	77
August	203	162
September	250	201
October	240	197
November	228	200
December	224	226
Total	2,233	1,892
Grand Total	4,125	

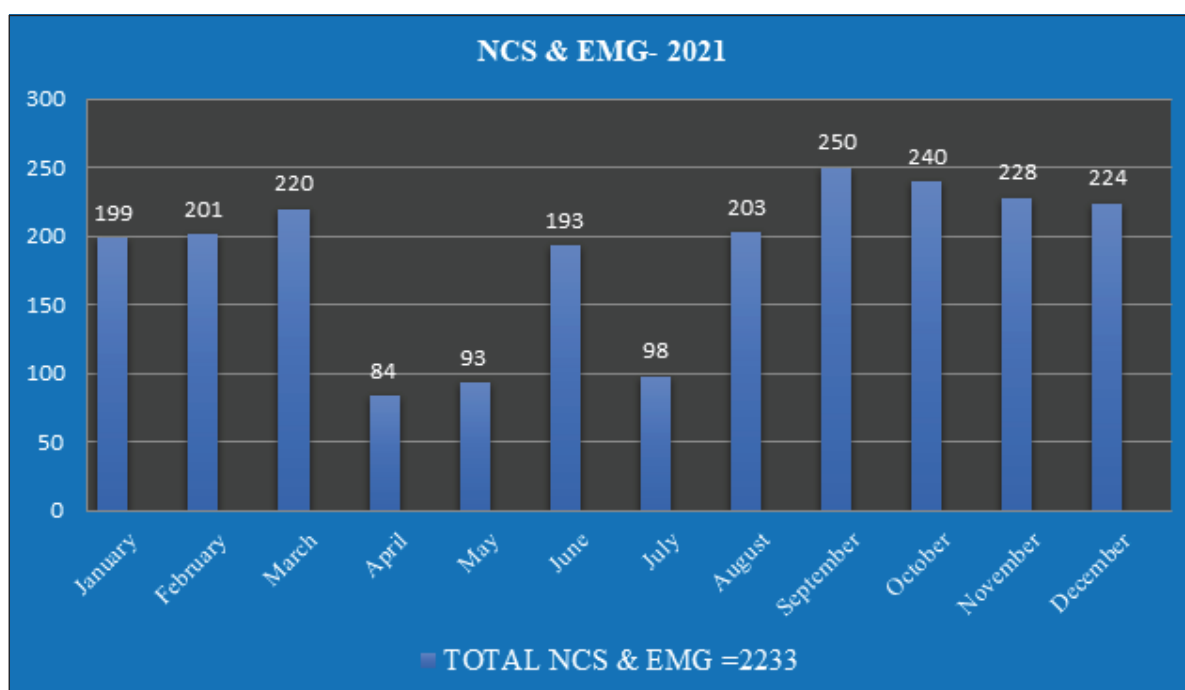


Figure I: GRAND TOTAL OF NCS / EMG 2021

Neuro-Physiology

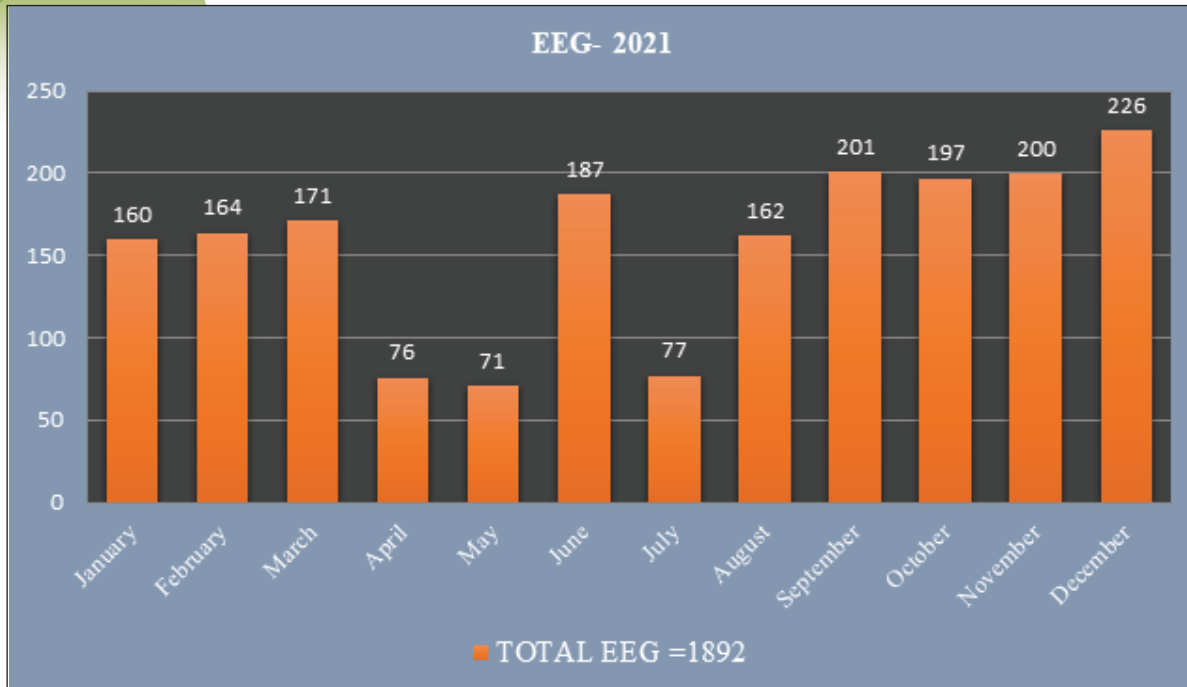


Figure II: GRAND TOTAL OF EEG 2021

Table 6: Total Number of Epilepsy Patients seen in weekly Epilepsy Clinic & Neuromuscular Clinic. (From 01 January 2021 to 31 December 2021)

Week No	Date	Epilepsy Clinic	Neuromuscular Clinic
1	07/01/2021	40	03
2	14/01/2021	55	02
3	21/01/2021	57	02
4	28/01/2021	51	06
5	04/02/2021	45	05
6	11/02/2021	53	08
7	18/02/2021	57	02
8	25/02/2021	54	02
9	04/03/2021	63	03
10	11/03/2021	55	03
11	18/03/2021	52	02
12	25/03/2021	57	05
13	01/04/2021	42	04
14	04/04/2021	24	01

Neuro-Physiology

Table 6: Total Number of Epilepsy Patients seen in weekly Epilepsy Clinic & Neuromuscular Clinic. (From 01 January 2021 to 31 December 2021)

Week No	Date	Epilepsy Clinic	Neuromuscular Clinic
15	15/04/2021	04	02
16	22/04/2021	09	03
17	29/04/2021	20	01
18	06/05/2021	18	01
19	20/05/2021	24	03
20	27/05/2021	40	03
21	03/06/2021	63	01
22	10/06/2021	44	01
23	17/06/2021	45	05
24	24/06/2021	44	03
25	01/07/2021	12	04
26	08/07/2021	19	02
27	15/07/2021	45	01
28	29/07/2021	21	01
29	05/08/2021	15	01
30	12/08/2021	51	01
31	19/08/2021	57	02
32	26/08/2021	49	06
33	02/09/2021	54	01
34	09/09/2021	60	02
35	16/09/2021	65	02
36	23/09/2021	58	04
37	30/09/2021	57	05
38	07/10/2021	78	04
39	14/10/2021	59	01
40	21/10/2021	49	04
41	28/10/2021	66	04
42	04/11/2021	69	03
43	11/11/2021	49	04
44	18/11/2021	77	03
45	25/11/2021	45	03
46	02/12/2021	61	04
47	09/12/2021	80	03
48	23/12/2021	95	05
49	30/12/2021	73	04
Total		2380	145

Neuro-Physiology

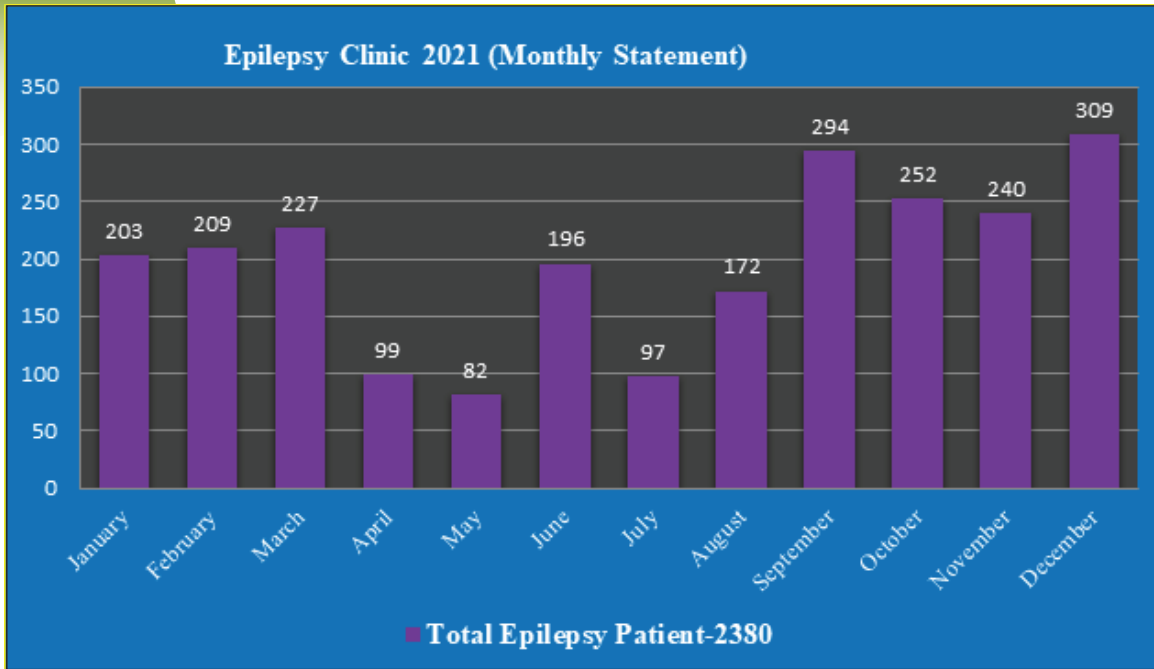


Figure III: Epilepsy Clinic Disorder Patient = 2380

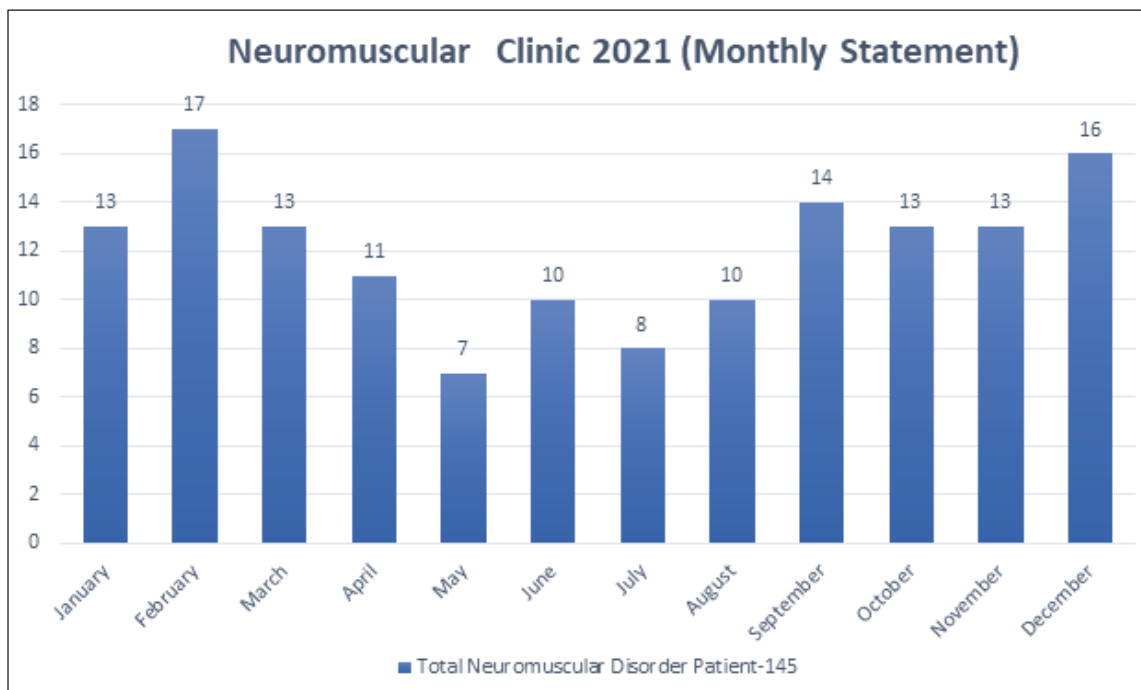


Figure IV: Total Neuromuscular Disorder Patient =145

Neuro-Physiology

Table 7: Machines in the Department

Name of the Machine	Quantity	Name of Machine Company	Model
EEG Machine	03	Nihon Kohden Corporation, Japan	1200K
Video EEG Machine	01	Natus Neurology Canada	
NCS & EMG Machine	03	Nihon Kohden Corporation, Japan	MEB 9400
NCS & EMG Machine	01	Natus Neurology Canada	

Department of Physical Medicine & Rehabilitation



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Khurshid Mahmood	FCPS	Professor & Head
2	Dr. Farida Khatun Chobi	FCPS	Associate Professor
3	Dr. Bijoya Dey Happy	MD	Assistant Professor
4	Dr. Saifur Ahmed	MD	Medical Officer



Physical Medicine & Rehabilitation

Table 2: Supporting Staff of the Departments

SL. No	Designation	Number
1	Physiotherapist	05
2	Medical Technologist (Physiotherapy)	14
3	Speech therapist	03
4	Occupational therapist	03
5	MLSS	03

Background

Physical Medicine & Rehabilitation Department, National Institute of Neuroscience & Hospital provides services to the patients with neurological problems and musculoskeletal disorders from the beginning. This department tries to correlate with other departments in providing facilities, faith and satisfaction to the patients. Under proper academic environment, it maintains all academic & clinical records. Now a day the department tries to open a new era regarding comprehensive patient care with its full effort and to create Physiatrist who spread the subject throughout the country and try their best to make it a unique subspecialty of medicine. So more people will gain access to this specialty as the problems of disability are increasing day by day due to RTA, TBI, and Stroke etc.

Academic activities

Departmental academic activities

- Case presentation/ Assessment
- Integrated teaching with different departments
- Seminar/ Symposium
- Journal club

Physiotherapy students

(Govt. / Other private institutions)

- Lecture / Tutorial classes
- Case presentation / Assessment
- Physical therapy practical demonstration
- Evaluation

Patient care

Inpatient

- Referred patient

Out patient

- Management
- Drugs

Physical Medicine & Rehabilitation

- Physical therapy (Physical agent & exercise)
- ADL training
- Counseling
- Follow up

Other facilities

- Departmental Library
- Computer
- Internet

Patient profile who were attending in the department of physical medicine in (01 January 2021 to 31 December 2021)

The total number of patients at Physical Medicine Department has been increasing day by day. Almost all the patients coming to this department from different areas of Dhaka city by themselves or referred by physicians from different department of National Institute of Neurosciences and Hospital. In January 2021 to December 2021 about **20,508 patients** were treated by Physical Medicine Department of National Institute of Neurosciences and Hospital.

Table 3: Monthly Patient Distribution in (01 January 2021 to 31 December 2021)

Month	Male	Female	Total
January	1296	825	2121
February	1031	822	1853
March	1025	783	1808
April	1248	914	2162
May	521	334	855
June	510	330	840
July	770	536	1306
August	993	581	1574
September	1268	886	2154
October	1186	797	1983
November	1201	796	1997
December	1122	733	1855
Total Month	12,171	8,337	20,508

Physical Medicine & Rehabilitation

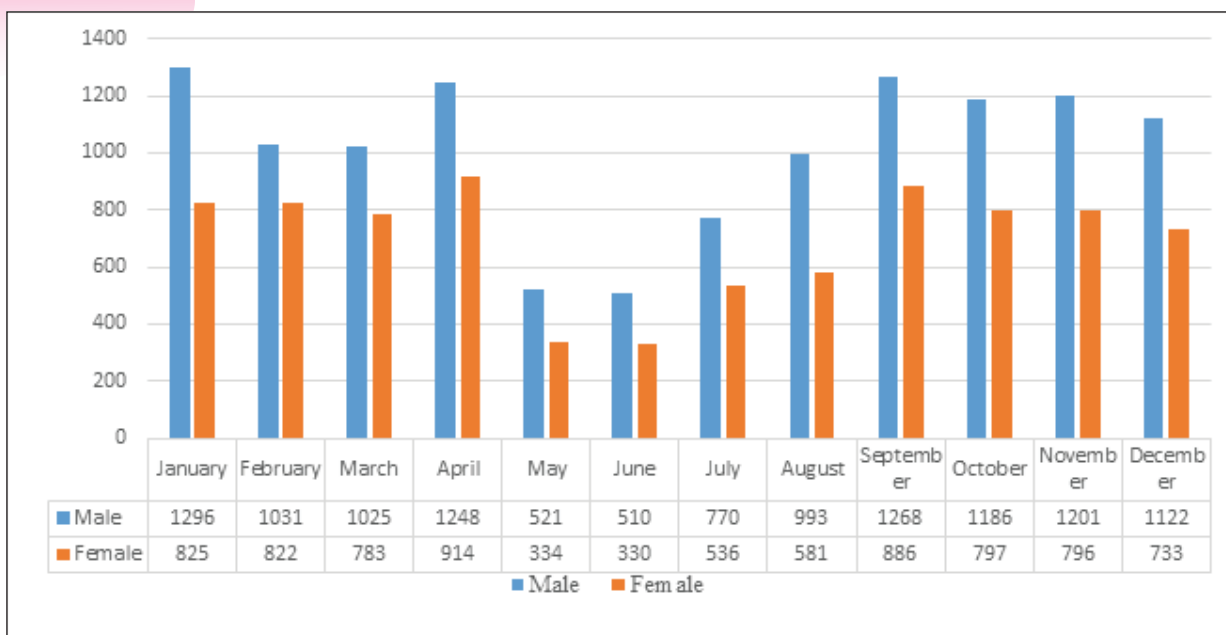


Figure I: Monthly Distribution for the Patients

Gender relation of total patients: in (January 2021 to December 2021)

From January 2021 to December 2021, total **19,235** were treated in physical Medicine and Rehabilitation department of National Institute of Neurosciences & Hospital. Among them **11,214** were male and **8,021** were female

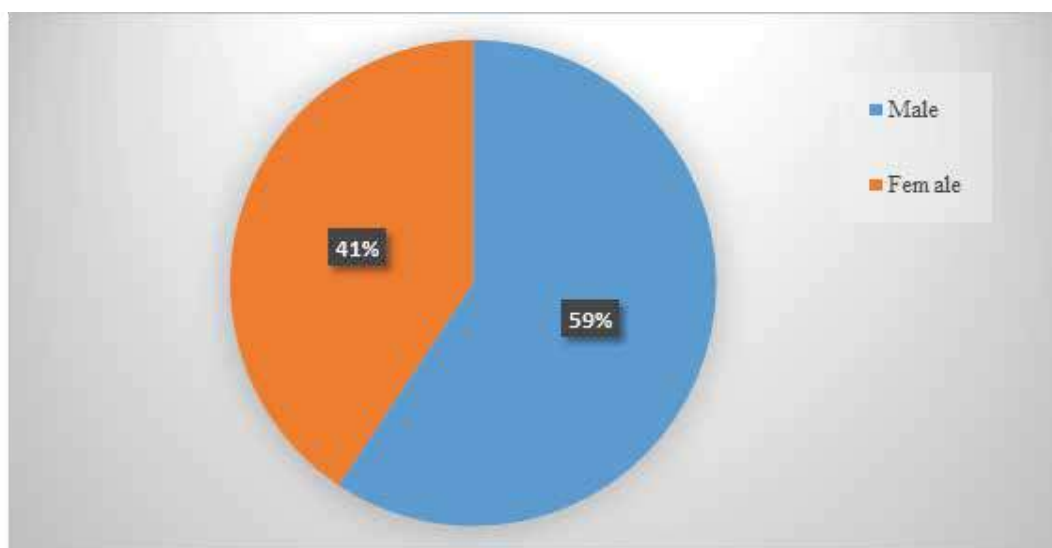


Figure II: Gender Distribution of Total Patients

Physical Medicine & Rehabilitation

Table 4: Outpatient disease profile (From 01 January 2021 to 31 December 2021)

SL. No	Name of the Disease	Percentage
1.	Low back pain (Mechanical, Lumbar spondylosis, Spinal stenosis, Ankylosing spondylitis, Spondylolisthesis)	40.2
2.	Stroke	18.1
3.	Neck pain (CS, Mechanical, other)	13.7
4.	Neuropathy (Paripheral neuropathy, entrapment neuropathy)	5.7
5.	Bell's Palsy	5.2
6.	Soft tissue rheumatism (Tennis elbow, Bicipital tendinitis, Planter fasciitis, de Quervain's disease, MPS, FM, adhesive capsulitis , others)	4.9
7.	Knee pain (Osteoarthritis, Meniscal and ligament injury)	4.4
8.	Myopathy (BMD,DMD, LGMD, others)	2.1
9.	Cerebral palsy	1.9
10.	Others (MND, Dystonia, MS, Osteoporosis, others)	3.7

Table 5: List of Instrument (From 01 January 2021 to 31 December 2021)

Sl. No.	Name of Instrument	Unit
1	Ultrasound Therapy	02
2	Short Wave Diathermy	02
3	Infrared Radiation	04
4	Wax Bath	02
5	Hydrotherapy Unit	02
6	Neurotome	02
7	Cervical and Lumbar Traction	03
8	Microwave Diathermy	02
9	CPM	02
10	LASER	02
11	Transcutaneous Electrical Nerve Stimulation (TENS)	02
12	Walker	10
13	Rolator	10
14	Static Bicycle	10
15	NK Table	04
16	Vibrator	04
17	Electrical Stimulation Therapy	04
18	Treadmill	02

Physical Medicine & Rehabilitation

Table 5: List of Instrument (From 01 January 2021 to 31 December 2021)

Sl. No.	Name of Instrument	Unit
19	EN-tree	01
20	Hand Ergometer	02
21	Wall bar	01
22	Shoulder Wheel	02
23	Parallel Bar (Plain & Stairs)	01
24	Vestibular Ball	04
25	Exercise mat	01
26	Tilt table with Hoist	02
27	Occupational therapy set	01
28	Suspension therapy set	01
29	Correction element (Presso-therapy)	01
30	Dumble	01
31	Wristlets	01
32	Wrist Roller resistances	02
33	Arm Balancer	02
34	Standing frame	02
35	Mobile poster mirror	05
36	FES unit	01
37	Tropic stimulator	01
38	Respiratory meter	16
39	Peak flow meter	16
40	Quad's chair	01
41	Bobath bed	04
42	Theraband	02
43	Putty	02
44	Interferential Therapy (IFT)	01

Daily Activities in the Department

Patients attending in the department of Physical Medicine either directly or referred from other department of National Institute of Neurosciences and Hospital are managed empathetically in a systemic and dynamic way by the doctor, physiotherapist under supervision of the head of the department.

Physical Medicine & Rehabilitation

- Daily patients (OPD, referred) are seen by the doctors from 8:00-2:30 pm.
- From 8:00am to 9:00am other academic activities such as seminar, journal club and case presentation are going on.
- Physiotherapists and occupational therapists are trained up by the department doctors with regular tutorial classes according to their curriculum from 1:30 pm – 2:00pm during their placement.
- ADL instructions are provided by the department to the patients for their better management.

Title Case: Facilities available in the department

Regarding patients management the following facilities are available in physical Medicine department.

- Equipments:
 1. Thermotherapy:
 - Short Wave Diathermy (SWD)
 - Micro Wave Diathermy (MWD)
 - Ultra Sound Therapy (UST)
 - Infra Red Radiation (IRR)
 - Wax Bath
 2. EST
 3. Transcutaneous Electrical Nerve Stimulation (TENS)
 4. Traction
 - Cervical
 - Pelvic
 5. Static bicycle
 6. N-K table
 7. Hand Ergo meter
 8. Interferential Therapy (IFT)
 9. FES
 10. Shoulder Wheel
 11. Pully
 12. Vibrator
 13. Occupational Therapy set
 14. Theraband
 15. Dumble
 16. Wrist mobilize
 17. CP facilities
 18. Walking Aids
 - Walker
 - Parallel Bar with & without stairs

Exercise:

Different exercises & transfer activities prescribed by the doctors are demonstrated by the physiotherapist to the patients and their care givers/attendants.

Department of Clinical Neurosurgery (Green Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Md. Zahed Hossain	MBBS, FCPS (Surgery), MS (Neurosurgery)	Professor
2	Dr. Amir Mohammad Khan	MBBS, MS (Neurosurgery)	Associate Professor
3	Dr. Forhad Hossain Chowdhury	MBBS, FCPS (Surgery), MS (Neurosurgery)	Assistant Professor
4	Dr. Md. Arif Reza	MBBS, MS (Neurosurgery)	Assistant Professor
5	Dr. Jalal Uddin Mohammad Rumi	MBBS, MS (General Surgery), MS (Neurosurgery)	Assistant Professor
6	Dr. Md. Rakibul Islam Sohel	MBBS, MS (Neurosurgery)	IMO
7	Dr. Md. Rakib-UI- Haque	MBBS, MS (Neurosurgery)	IMO
8	Dr. Junayed Safar Mahmud	MBBS	IMO



Clinical Neurosurgery (Green Unit)

Table 2: Patient Statement Summary of (01 January 2021 to 31 December 2021)

Ward: Neurosurgery
Unit: Green (NS-5)

SL. No	Month	Admission	Transfer in	Transfer out	Discharge	DORB	Absconded	Death
01	January	13	-	-	11	-	-	01
02	February	15	-	-	13	02	-	01
03	March	15	-	-	13	-	-	01
04	April	22	-	01	14	01	-	01
05	May	12	-	02	12	01	-	02
06	June	12	-	-	12	01	-	-
07	July	10	02	02	14	-	-	01
08	August	15	-	-	09	-	-	-
09	September	20	-	-	15	-	-	-
10	October	18	01	-	15	-	-	01
11	November	18	-	-	13	02	-	01
12	December	17	-	01	16	-	-	01
Total Patient		187	03	06	157	07	-	10

Table 3: Neurosurgery Patient Discharge (01 January 2021 to 31 December 2021)

Total Neurosurgery Admission Patient	187
Total Neurosurgery Discharge Patient	157
Total Neurosurgery Transfer in Patient	03
Total Neurosurgery Transfer out Patient	06
Total Neurosurgery DORB Patient	07
Total Neurosurgery Absconded Patient	-
Total Neurosurgery Death Patient	10

Clinical Neurosurgery (Green Unit)

Table 4: Patient Statement Summary of (01 January 2021 to 31 December 2021)

SL. No	Diagnosis	Name of Operation	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
01	Pituitary	Endoscopic Endonasaltranss Sphenoidal removal of tumor	3	1	2	0	0	1	3	0	1	1	1	0	13
02	Post-Fossa /cerebellar	Midline Suboccipital Craniotomy and removal of tumor	0	0	1	0	0	0	2	0	0	2	1	0	4
03	Hydrocephalus	Ventriculoperitoneal Shunt	1	0	0	0	2	0	2	0	1	0	2	3	11
04	Gliomas	Craniotomy and removal of tumor	1	2	1	2	1	4	3	2	3	2	0	2	23
05	Intracranial Aneurysms	Microsurgical Clipping of tumor	5	6	6	4	3	11	4	4	6	7	2	8	66
06	Meningiomas	Craniotomy and removal of tumor	2	3	4	2	6	1	5	2	4	2	3	2	36
07	Intracranial Hematoma	Craniotomy and removal of Clot/ Decompressive craniectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
08	Cerebella-pontine angle tumor	Retromastoid retrosigmoid craniotomy and removal of tumor	1	1	1	2	2	0	3	0	3	0	0	4	17
09	ICH with VE/ SAH with HCP	External ventricular Drainage	2	2	0	0	0	0	0	0	1	1	0	0	6
10	CSF leak/ CSF Rhinorrhoea/ pseudo meningocele	Re-exploration craniotomy and repair	0	0	0	0	0	0	0	0	0	0	0	0	00
11	3 rd ventricular Colloid cyst	Endoscopic removal of tumor	0	0	0	0	0	1	0	0	0	0	0	0	1
12	Spinal Tumor	Laminectomy and removal of tumor	1	0	1	0	0	2	1	0	0	1	2	2	10
13	Compressive cervical Myelopathy due to PID	Anterior cervical discectomy and fusion	0	0	1	1	0	0	1	0	1	0	1	0	5

Clinical Neurosurgery (Green Unit)

Table 4: Patient Statement Summary of (01 January 2021 to 31 December 2021)

SL. No	Diagnosis	Name of Operation	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
14	PLID	Fenestration and discectomy	2	0	2	0	1	1	1	0	1	1	0	1	10
15	Dorsal Compressive Myelopathy/ Pott's disease	Decompression by laminectomy and/or fixation& biopsy	1	0	0	0	0	0	0	0	0	0	0	0	1
16	Compression Fracture	Stabilization and fixation	0	0	0	0	0	0	0	0	1	0	0	0	1
17	Spondylolisthesis	Decompression reduction and fixation	0	0	0	1	0	1	0	0	0	0	0	0	2
18	Cerebral abscess	Craniotomy and evacuation of pus	0	0	0	0	0	0	0	0	0	0	0	1	1
19	Clival Chordoma	Endoscopic transnasal removal of tumor	0	0	0	0	0	0	0	0	0	0	0	0	00
20	Sacral Chordoma	Laminectomy and Excision	0	0	1	0	0	0	0	0	0	0	0	0	1
21	Jugular foramen lower cranial nerve tumor	Retrosigmoid/ Far lateral approach	0	0	0	0	0	0	0	0	0	0	0	0	00
22	Chiari-1 malformation with syrinx	Post. fossa decompression and Midline suboccipital craniectomy	1	0	0	0	0	0	0	0	0	0	0	0	1
23	Intraventricular tumor	Endoscopic and/or craniotomy and transcallosal removal	1	0	0	0	1	0	1	1	0	0	0	0	4
24	Pineal region tumor	Midline suboccipital Craniotomy and removal of Tumor	0	0	0	1	0	0	1	0	1	0	0	0	3
25	Seller/ suprasellar tumor/Craniopharyngioma	Craniotomy sub frontal approach and removal	1	0	1	1	0	0	1	1	0	0	0	0	5
26	Moya- Moya Disease	EC-IC Bypass (STA-MCA)	1	0	0	0	1	1	2	1	0	0	0	0	6
27	Moya- Moya Disease	Encephalo-duro- arteriosynangiosis (EDAS)	0	0	0	0	0	1	0	0	0	0	0	0	1

Clinical Neurosurgery (Green Unit)

Table 4: Patient Statement Summary of (01 January 2021 to 31 December 2021)

SL. No	Diagnosis	Name of Operation	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
28	Subdural collection Hematoma/empyema	Burr-hole/ craniotomy and evacuation	0	0	0	0	0	0	0	0	0	1	0	0	1
29	Fibrous dysplasia	Craniectomy and excision	0	0	0	0	0	0	0	0	0	0	0	1	1
30	Foreign body Granuloma	Excision	0	0	0	0	0	0	0	0	3	0	0	0	3
31	Osteomyelitis of skull bone	Removal of infected bone	0	0	0	0	0	0	0	0	0	1	0	0	1
32	Epidermoid Cyst	Craniotomy and removal of cyst	1	1	0	0	0	0	1	0	0	0	0	1	4
33	Multiple Intracranial SOL/ Tuberculoma	Biopsy	0	1	0	0	0	0	0	0	0	0	0	0	1
34	Arachnoid cyst	Endoscopic cysto- cistern ostomy	0	0	0	0	0	0	0	0	0	0	0	0	2
35	Arachnoid cyst	Craniotomy and marsupialisation, L-P shunt	0	0	0	0	0	0	0	0	0	0	0	0	00
36	Intracranial AVM	Craniotomy and excision	1	1	0	0	0	2	1	0	2	1	2	4	14
37	Spinal AVM/AVF	Laminectomy Laminoplasty and Excision	0	0	0	1	0	1	0	0	0	0	0	1	3
38	Scalp AVMI cirroid aneurysm	Excision	0	0	0	0	0	0	0	0	0	0	0	0	00
39	Idiopathic intracranial hypertension (IIH)	Optic nerve sheath fenestration (ONSF) B/L	1	1	0	1	0	1	0	1	1	1	2	1	10
40	IIH/NPH	V-P/ Lumbo-Peritoneal shunt	0	0	0	0	0	0	0	0	0	0	0	1	1
41	Carpal tunnel syndrome	Release of CTS	0	0	1	0	0	1	1	1	0	0	0	1	5
42	Chronic subdural hematoma (CSDH)	Burr hole and evacuation	0	0	0	0	0	0	0	1	0	0	0	0	1
43	Hydrocephalus	Endoscopic 3 rd ventriculostomy	0	0	0	0	0	0	0	0	1	1	0	0	2

Clinical Neurosurgery (Green Unit)

Table 4: Patient Statement Summary of (01 January 2021 to 31 December 2021)

SL. No	Diagnosis	Name of Operation	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
44	Atlanta- Axial dislocation with basilar invag	Reduction and C-C, fixation	0	0	1	0	0	0	0	0	0	0	0	0	2
45	Lumber Spinal canal stenosis	Laminectomy and decompression	0	0	0	1	0	1	0	0	0	0	0	0	2
46	Carotido- Cavernous Fistula (CCF)	Ligation of CCA	0	0	0	0	0	0	0	0	0	0	0	0	00
47	Cerebral Metastasis	Craniotomy and excisional biopsy	0	0	0	0	0	0	0	0	1	0	0	0	1
48	Post-operative Discitis	Re-exploration and decompression by laminectomy, C/S	0	0	0	0	0	0	0	0	0	0	0	0	1
49	Post craniectomy status	Cranioplasty	0	0	0	0	0	1	0	0	0	0	0	0	1
50	Shunt malfunction	Shunt revision	0	0	0	0	0	0	0	1	1	0	0	0	1
51	Wound infection	Surgical toileting dressing and 2 closure	0	0	0	0	1	0	0	0	0	0	0	1	2
52	Skull bone tumor	Craniectomy and removal	0	0	0	0	0	0	0	0	1	0	0	0	1
53	Scalp Cyst (Dermoid / sebaceous)	Excision	1	0	0	0	0	0	0	1		1	0	0	4
54	Myopathy	Muscle biopsy	0	0	0	0	0	0	0	0	0	0	0	0	00
55	Raised ICP/	Decompressive craniectomy	0	0	0	0	0	0	0	0	0	0	0	0	00
56	Postop hematoma and edema	Re-exploration and evacuation	0	0	0	0	0	0	0	0	1	1	1	0	3
57	Nerve Injury	Nerve repair	0	0	0	0	0	0	0	0	0	0	0	0	00
58	Seizure disorder	Hemispherectomy	0	0	0	0	0	0	0	0	0	0	0	0	00
59	Hemangio-pericytoma	Craniotomy and Removal	0	0	0	0	0	0	0	0	0	0	0	0	00
60	Brachial plexus injury	Nerve transfer	0	0	0	0	0	0	0	0	0	0	0	0	00

Clinical Neurosurgery (Green Unit)

Table 4: Patient Statement Summary of (01 January 2021 to 31 December 2021)

SL. No	Diagnosis	Name of Operation	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
61	Trigeminal Schwannoma	Retrosigmoid suboccipital removal of tumor	0	0	0	0	0	0	1	1	0	0	1	0	3
62	Cavernous sinus lesion	Endoscopic excision and biopsy	0	0	0	0	0	0	0	1	0	1	0	0	2
63	Glomusjugulare tumor	Presigmoidtransmastoid removal of tumor	0	0	1	0	0	0	0	0	1	0	0	0	1
64	ICA aneurysm	EC-IC Bypass (STA-MCA)	0	0	0	0	0	0	0	1	0	0	1	3	6
65	Massive MCA infarct	Decompressive craniectomy	0	0	0	0	0	0	0	0	1	0	1	0	2
66	Sinu-nasal growth	Craniotomy and excision	0	0	0	0	0	0	0	0	1	0	0	0	1
67	Cavernoma	Craniotomy and removal	0	0	0	0	0	0	0	0	0	0	1	0	1
68	Mesial temporal Sclerosis	Amygdalo- hippocampectomy	0	0	0	0	0	0	0	0	0	0	1	2	3
69	Trigeminal Neuralgia	Microvascular decompression	0	0	0	0	0	0	0	0	0	0	0	1	1
70	Retro-orbital Tumor	Endoscopic transmaxillary removal	0	0	0	0	0	0	0	0	0	0	0	0	00
71	Sacral teratoma	Laminectomy and excision	0	0	0	0	0	0	0	0	0	0	0	0	00
72	Spinal implant Failure	Removal of implant	0	0	0	0	0	0	0	0	0	0	0	0	00
73	Facial palsy	Tarsorrhaphy	0	0	0	0	0	0	0	0	1	0	0	0	1
74	Trigeminal neuralgia	Percutaneous gasserianrhizotomy	0	0	0	0	0	0	1	0	0	0	0	0	1
75	CSF rhinorrhoea	Lumber drain	1	2	0	0	0	0	2	1	0	0	1	1	7

Department of Clinical Neurosurgery (Blue Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Md. Moklasur Rahman Mukul	MBBS, FCPS, MS	Associate Professor
2	Dr. Rustom Ali	MBBS, MS	Register (CNS)
3	Dr. Md. Reaz Ahmed Hawlader	MS	Medical Officer (CNS)
4	Dr. Md. Ismail Hossain	MS	Medical Officer (CNS)
5	Dr. Sanjoy Kumar Saha	MBBS, FCPS	Medical Officer (CNS)
6	Dr. Md. Mizanur Rahman	FCPS	Medical Officer (CNS)



Clinical Neurosurgery (Blue Unit)

Table 2: Number of Beds:

Male	Male paying beds	8
	Male non-paying beds	4
Female	Female paying beds	7
	Female non-paying beds	4
Cabin	As per availability	
Total		23+

Table 3: Total Admission (01 January 2021 to 31 December 2021)

Total Admission 355 Male- 175 Female - 180	Mortality	
	Male	12
	Female	7
	Pre-op	9
	Post- op	2
	Mortality rate	5.2 %
	OPD Patient	23775

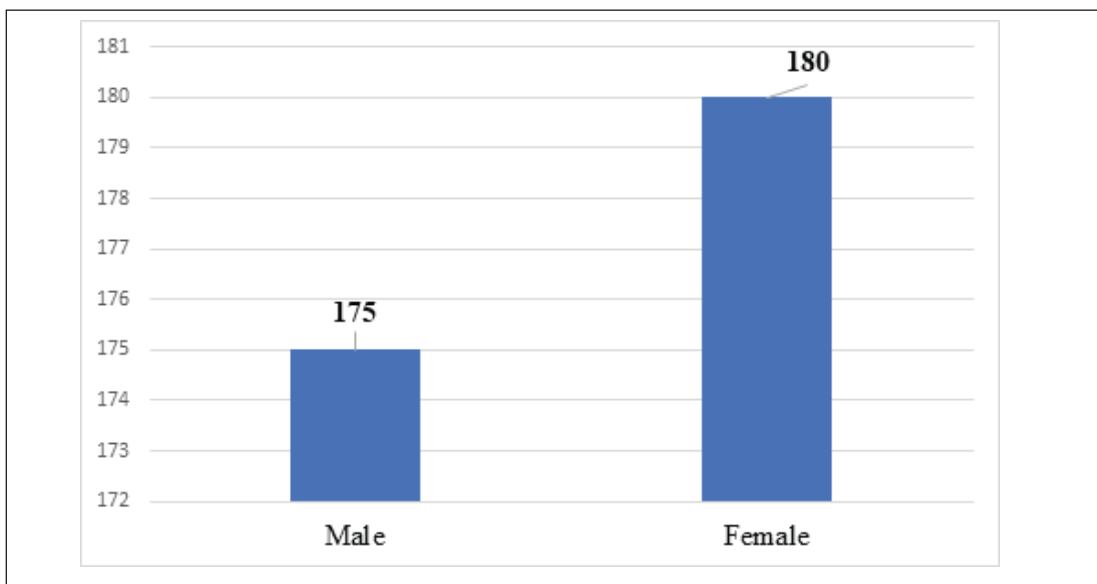


Figure I: Total Admission Male & Female

Clinical Neurosurgery (Blue Unit)

Table 4: Blue Unit Cranial Cases Summary of (01 January 2021 to 31 December 2021)

Cranial Cases		
SL. No	Diseases Name	Total
1	Cerebellopontine (CP) Angle Tumor	28
2	Arteriovenous Malformation (AVM)	09
3	Aneurysm	47
4	Endoscopic Pituitary	39
5	Meningioma	35
6	Intracerebral Hemorrhage (ICH) 10	07
7	Microvascular decompression (MVD) For Trigeminal Neuralgia (TN)	12
8	Glioma	19
9	Ventriculoperitoneal (V-P) Shunt	12
10	Posterior fossa Space Occupying Lesions (SOL)	10
11	Craniopharyngioma	08
12	Arachnoid cyst	08
13	Endoscopic Third Ventriculostomy (ETV)	02
14	Optic never sheath fenestration	05
15	Osteoma of the skull I	07
16	Foramen magnum lesion	10
17	Chair malformation	06
18	Cavern map	05
Total		259

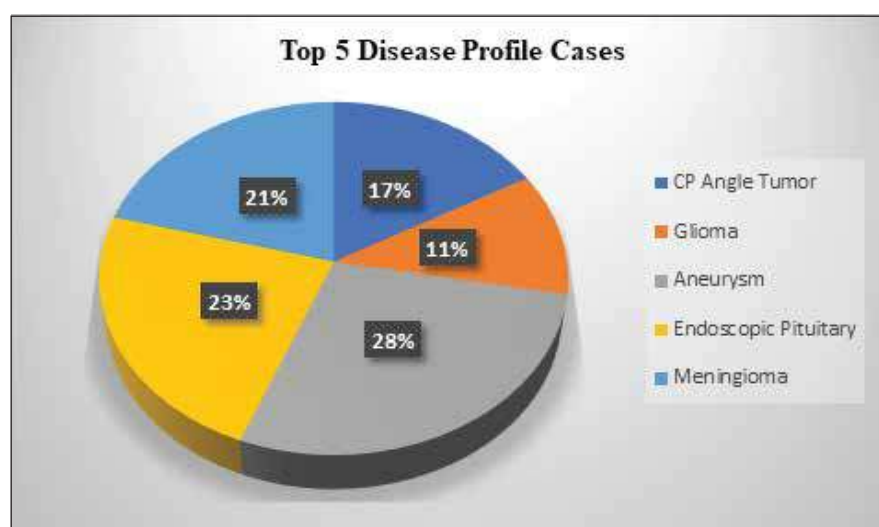


Figure II: Top 5 Disease Profile Cases

Clinical Neurosurgery (Blue Unit)

Table 5: Blue Unit Spinal Cases Summary of (01 January 2021 to 31 December 2021)

Spinal Cases		
SL. No	Diseases Name	Total
1	Prolapsed Lumbar Intervertebral Disc (PLID)	44
2	Anterior Cervical Discectomy and Fusion (ACDF)	12
3	Stabilization	02
4	Spinal tumor	13
5	AAD	04
Total		75

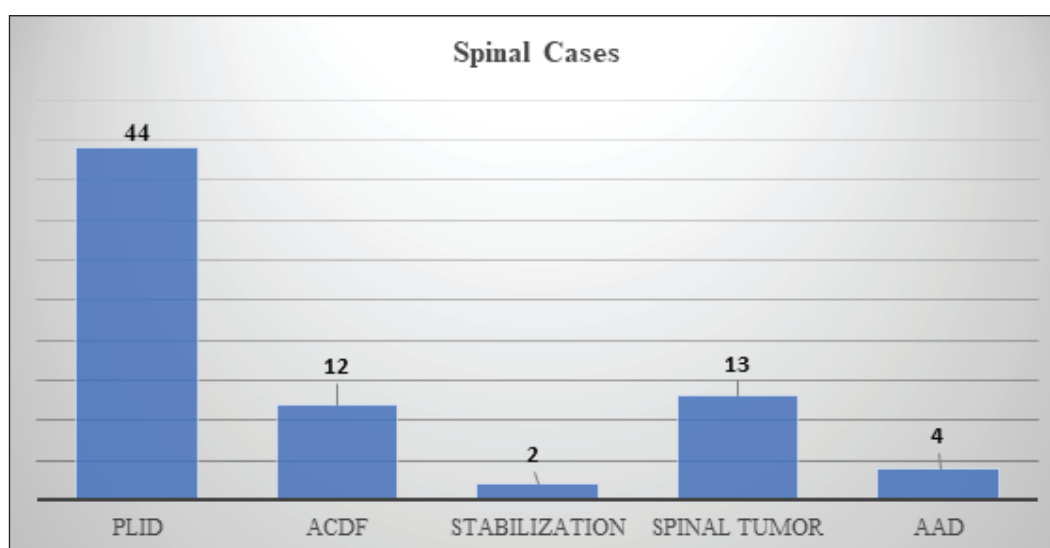


Figure III: Spinal Profile Cases

Table 6: Others Cases (01 January 2021 to 31 December 2021)

Others Cases		
SL. No	Diseases Name	Total
1	CTS	12
2	Cricoid aneurysm	03
3	Desmoids cyst	08
4	NF	00
Total		23
Total Cases		357

Clinical Neurosurgery (Blue Unit)

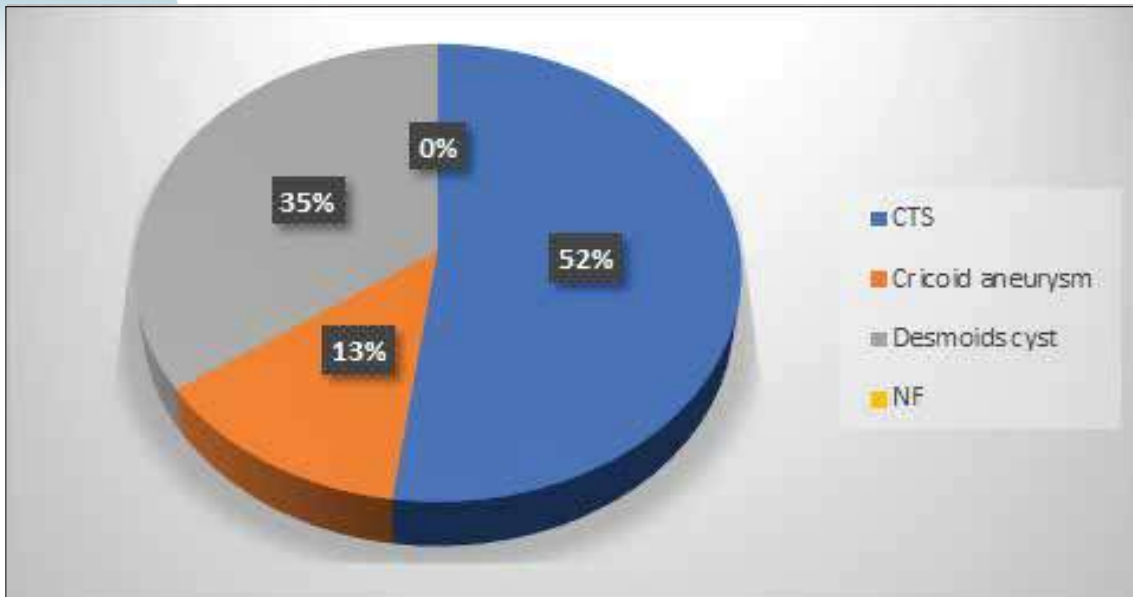


Figure IV: Others Cases



Department of Clinical Neurosurgery-Spine (Yellow Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Mirza Md. Hafizur Rashid	MS (Neurosurgery)	Professor & Head
2	Dr. A.T.M Ashadullah	MS (Neurosurgery)	Associate Professor
3	Dr. Misbah Uddin Ahmad	MS (Neurosurgery)	Assistant Professor
4	Dr. Md. Bayazidur Rahman	MBBS	Assistant Registrar
5	Dr. Mithun Sardar	MS (Neurosurgery)	Medical Officer



Clinical Neurosurgery-Spine (Yellow Unit)

Activities:

OPD

Neurosurgery - Spine (Yellow Unit) Saturday & Tuesday

Follow up Post Operative Patients:

Neurosurgery - Spine (Yellow Unit) Saturday & Tuesday

Indoor Services:

Grand Round patient Evaluation

Every Sunday and Wednesday

Schedule OT Date:

Every Monday and Thursday

Total Bed:

Neurosurgery - Spine (Yellow Unit): 23+ Cabin (Male & Female)

Neurosurgery - **Spine (Yellow Unit): Total Patient Admission = 324**

Neurosurgery - **Spine (Yellow Unit): Total Surgery Done = 239**

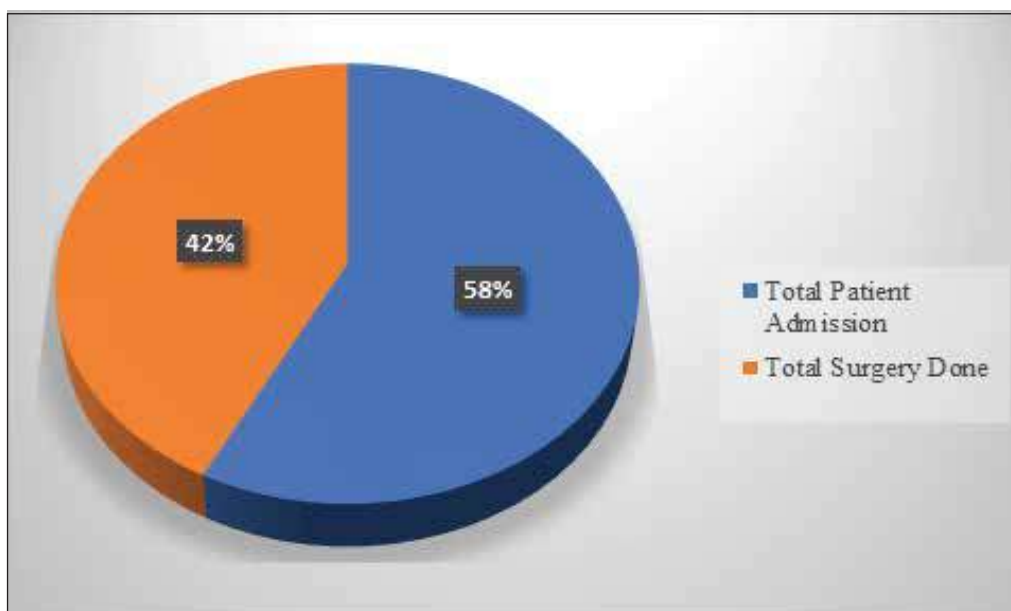


Figure I: Neurosurgery-Spine (Yellow Unit) Patient Admission & Surgery Done

Clinical Neurosurgery-Spine (Yellow Unit)

- 1. Cranial =11
- 2. Spinal= 228

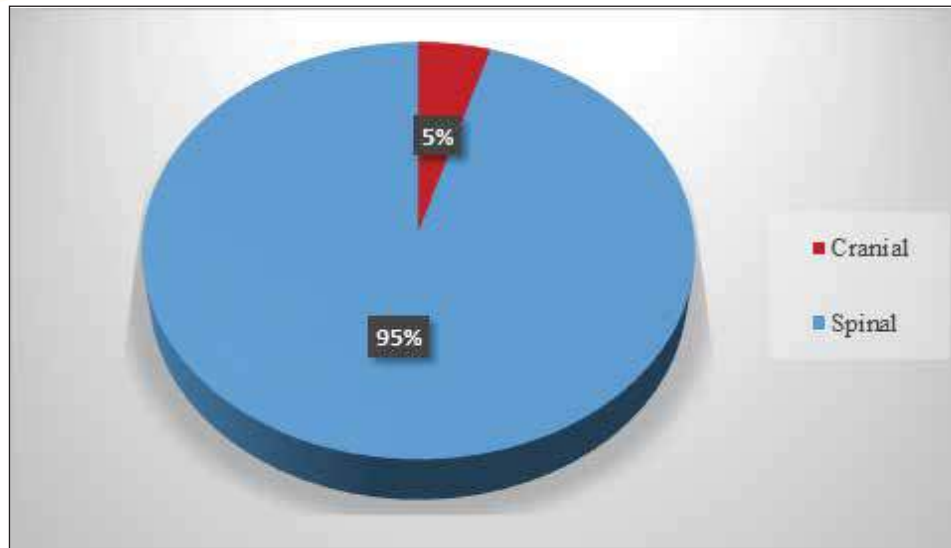


Figure II: Neurosurgery-Spine (Yellow Unit) Cranial & Spinal

Mortality: 05

Neurosurgery-Spine (Yellow Unit): Total Mortality = 10

- 1. Male =04
- 2. Female =06

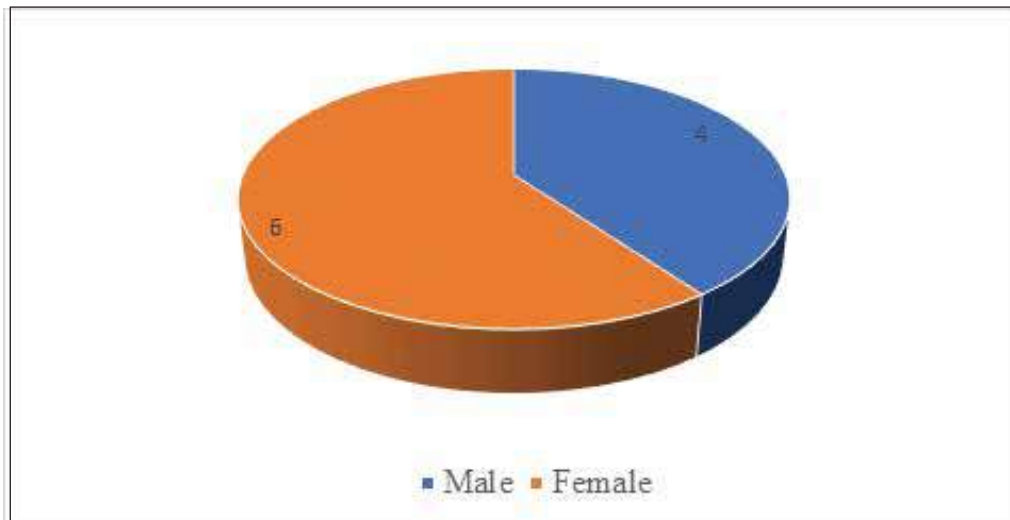


Figure III: Total Mortality Neurosurgery-Spine (Yellow Unit)

Clinical Neurosurgery-Spine (Yellow Unit)

Male And Female Patient ratio:

Male = 199

Female = 125

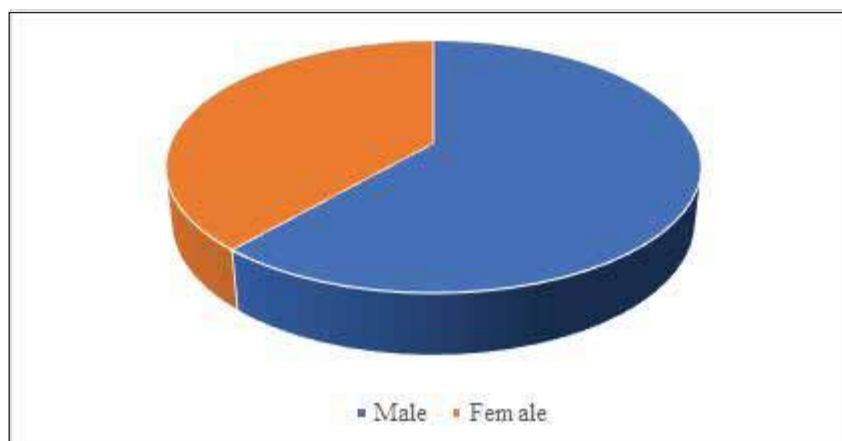


Figure IV: Male & Female Patient ratio

Table 2: Disease profile Neurosurgery-Spine (Yellow Unit)
(01 January 2021 to 31 December 2021)

Sl. No.	Disease with total no. of patients (Spine)	Yellow Unit
1.	Spinal Tumor	53
2.	Pott's Spine	14
3.	Cervical & Fixation (ACDF)	41
4.	Dorsal Fixation	00
5.	Lumber Spondylolisthesis & Fixation	16
6.	PLID & Lumber Canal Stenosis	78
7.	Removal of Implant	01
8.	Others	02
9.	CV Junction/AAD	23
Total Spine		228

Clinical Neurosurgery-Spine (Yellow Unit)

Table 3: Total Category Wise Neurosurgery-Spine (Yellow Unit)
(01 January 2021 to 31 December 2021)

Sl. No.	Cranial	Yellow Unit
1.	Aneurysm	04
2.	Meningioma	03
3.	Chordoma	01
4.	Chiari	03
Total Brain Tumor		11

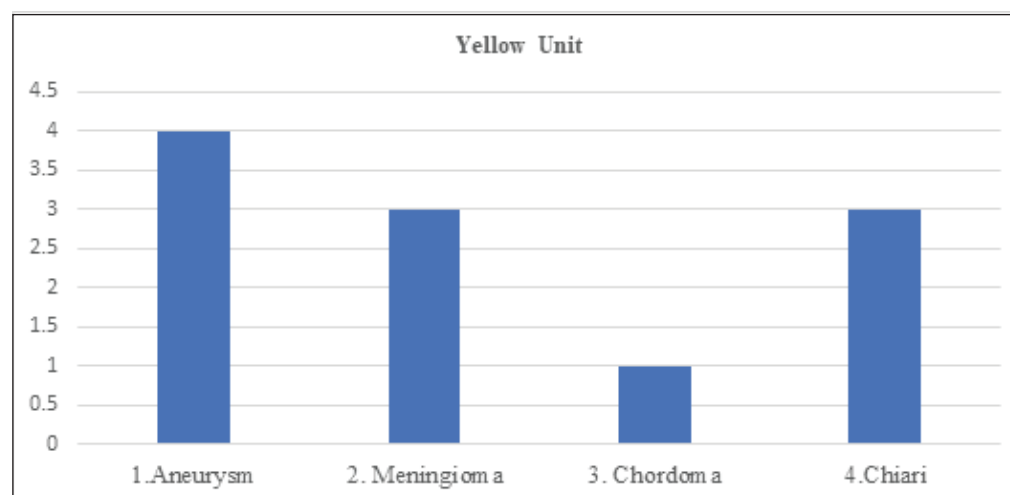


Figure V: Total Category Wise Neurosurgery-Spine (Yellow Unit)

Clinical Neurosurgery-Spine (Yellow Unit)

Cranial = 11

1. Routine = 07
2. Emergency = 04

Spinal: 228

1. Routine = 226
2. Others = 02

Academic Activities:

Clinical Class (Morning session) Every Saturday

Recommendations:

Establishment of Surgical Neuro ICU.

Replacement and Repair of Surgical Instruments

Data entry operator for proper documentation.

Duty Medical Officer for Floor and Postoperative ward separately.

Limitations:

Inadequate number of Scrub nurses in OT.

Insufficient number of Anesthesiologists in the evening and night.

Department of Pediatric Neurosurgery (Orange Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Sheikh Md. Ekramullah	PhD	Professor and Head
2	Dr. Sudipta Kumer Mukherjee	MS (Neurosurgery)	Associate Professor
3	Dr. D. M. Arman	MS (Neurosurgery)	Assistant Professor
4	Dr. Md. Ruhul Moktadir	MS (Neurosurgery)	Registrar
5	Dr. Md. Ziauddin	MS (Neurosurgery)	Assistant Registrar
6	Dr. Md. Moshir Rahman	MS (Neurosurgery)	Medical Officer
7	Dr. Md. Nafaur Rahman	MS (Neurosurgery)	Medical Officer
8	Dr. Abdullah Al Mahbub	MS (Neurosurgery)	Medical Officer
9	Dr. Ziaul Hoque	MS (Neurosurgery)	Medical Officer



Pediatric Neurosurgery (Orange Unit)

Table 2: Service Wise Summary (From 01 January 2021 to 31 December 2021)

SL. No	Name of Operation	Total
1	VP Shunt	95
2	ETV	37
3	Endoscopic procedure	08
4	Myelomeningocele	60
5	Brain tumor	64
6	Aneurysm	07
7	Moyamoya Disease	13
8	Craniosynostosis	04
9	AAD	01
10	Others	93
11	Congenital Case	51%, (Hydrocephalus-35%, NTD-16%)
12	Brain Tumor	18%

Total number of OPD patient's seen : 3695
Total number of admitted patient's : 358
Total number of operations : 374
Total death : 22
Mortality rate : 5.88%



Figure I: (Hydrocephalus Camp (20th March 2021 On Saturday))

Pediatric Neurosurgery (Orange Unit)



Figure II: First operation with neuronavigational at NINS on 19.06.2021. Endoscopic transnasal transsphenoidal removal of craniopharyngioma in pediatric neurosurgery department

Services:

1. Operation - 3 days in a week.
2. Outdoor service - 2 days in a week. Follow up- post operative patients: 2 days in a week.
3. Round 4 days in a week.
4. Clinical meeting - once in a week.
5. Emergency consultation.
6. Emergency surgery.

Special Services:

1. Awareness programme. Counseling of NTD and HCP patient in OPD, patient department and over phone by two trained councilor.

Academic Activities:

1. Academic discussion in different topics - 3 days in a week in the department.
2. Academic discussion through Skype in home and abroad about difficult cases in a week.

Pediatric Neurosurgery (Orange Unit)

Research Activities:

Table 3: Research project completed by teachers during last 5 years:

SL No	Name of the project	Principle investigator	Sponsor or funding agency	Comments/ remarks
1.	Does arsenic increase the risk of neural tube defects in a highly exposed population	Dr. Maitreyi Majumder Dr. Sudipta Kumer Mukherjee (Local PI)	USA Govt.	International
2.	A comparative study to find out outcome between loculated hydrocephalus and simple hydrocephalus	Dr. Sudipta Kumer Mukherjee	Self	National
3.	Management of hydrocephalus	Dr. Sudipta Kumer Mukherjee (Local PI)	CURE international	International
4.	Accuracy of Ventricular Catheter Tip Placement Using Freehand Placement	Dr. D. M. Arman	Self	National
5.	One Stage Reconstruction and Refinements for Frontonasal Encephalocele	Dr. D. M. Arman	Self	National
6.	Relationship of the Location of the Ventricular Catheter Tip and Function of the Ventriculoperitoneal Shunt	Dr. D. M. Arman	Self	National

Table 4: Research project ongoing by teachers at the department:

SL No	Name of the project	Principle investigator	Sponsor or funding agency	Comments/ remarks
1.	Does arsenic increase the risk of neural tube defects in a highly exposed population	Dr. Maitreyi Majumder, Dr. Sudipta Kumer Mukherjee (Local PI)	USA Govt.	International
2.	Outcome of posterior fossa tumor	Dr. D. M. Arman	Self	National
3.	MAA Study	Dr. Sudipta Kumer Mukherjee	Self	National

Pediatric Neurosurgery (Orange Unit)

Publications:

Publications from the department in last 5 years: 11

Resource:

1. Dr. Sk. Md. Ekramullah, Professor and Head, Department of Pediatric Neurosurgery
2. Dr. Sudipta Kumar Mukherjee, Associate professor, Department of Pediatric Neurosurgery
3. Dr. D. M Arman, Assistant Professor
4. Dr. Md. Ruhul Moktadir, Registrar
5. Dr. Md. Ziauddin, Assistant Registrar, Department of Pediatric Neurosurgery
6. Dr. Md. Moshir Rahman, Medical Officer, Clinical Neurosurgery
7. Dr. Md. Nafaur Rahman, Medical Officer, Department of Pediatric Neurosurgery
8. Dr. Abdullah Al Mahbub, Medical Officer, Department of Pediatric Neurosurgery
9. Dr. Ziaul Hoque, Medical Officer, Department of Pediatric Neurosurgery

Recommendation:

1. Creation of post of
 - Associate Professor - 1
 - Assistant Professor - 2
 - Registrar - 1
 - Assistant Registrar - 1
 - Medical Officer - 6
2. To ensure ICU bed availability after surgery.



Clinical Neurosurgery- (Pink Unit)



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Md. Joynul Islam	MBBS, MS	Professor & Head
2	Dr. Md. Shamzuzzaman Mondle	MBBS, MS	Assistant Professor
3	Dr. Kazi Hafiz Uddin	MBBS, MS	Assistant Professor
4	Dr. Mohammad Masum Ali	MBBS, MS	Assistant Registrar
5	Dr. Soumen Samadder	MBBS, MS	Medical Officer
6	Dr. Syeda Neyamot-E-Ferdousse	MBBS, MS	Medical Officer



Clinical Neurosurgery- (Pink Unit)

Activities:

OPD

Clinical Neurosurgery- (Pink Unit) Saturday & Tuesday

Follow up of Postoperative Patients:

Clinical Neurosurgery- (Pink Unit) Saturday & Tuesday

Indoor Service:

Grand Round for Patient Evaluation:

Every Sunday and Wednesday

OT Date:

Every Monday and Thursday

Total bed:

Clinical Surgery- (Pink Unit): 23+ Cabin (Male & Female)

Clinical Surgery- (Pink Unit): Total Patient Admission = 383

Clinical Surgery- (Pink Unit): Total Surgery Done = 303

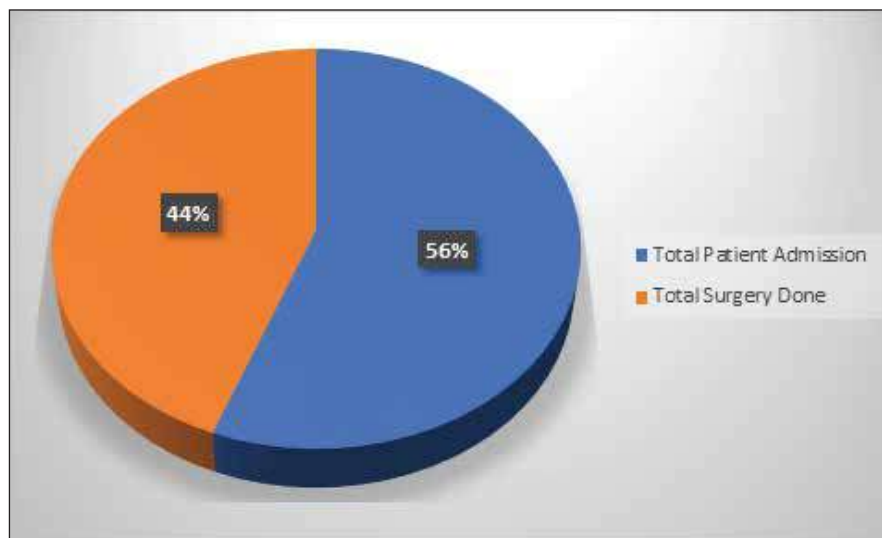


Figure I: Total Patient Admission & Surgery Done

Clinical Neurosurgery- (Pink Unit)

- 1. Cranial = 293
- 2. Spine = 10

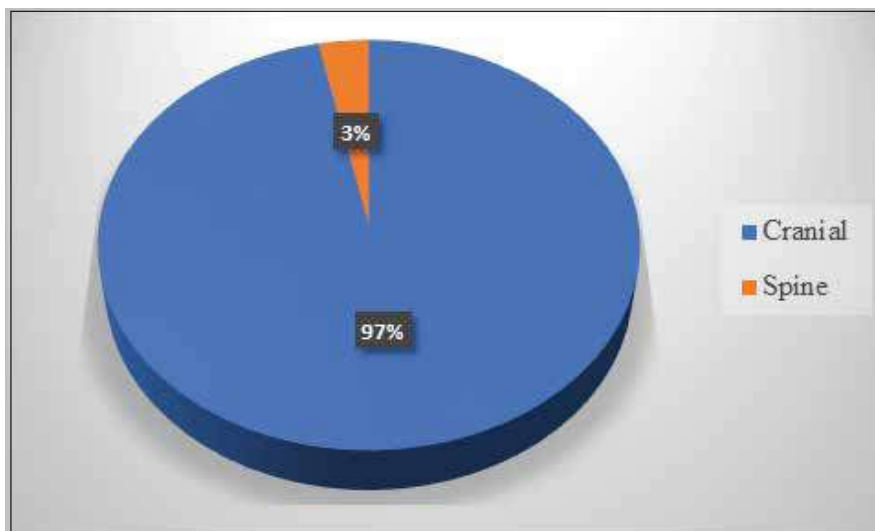


Figure II: Clinical Neurosurgery (Pink Unit)

Clinical Neurosurgery (Pink Unit) Mortality Total = 24

- 1. Male = 18
- 2. Female = 17

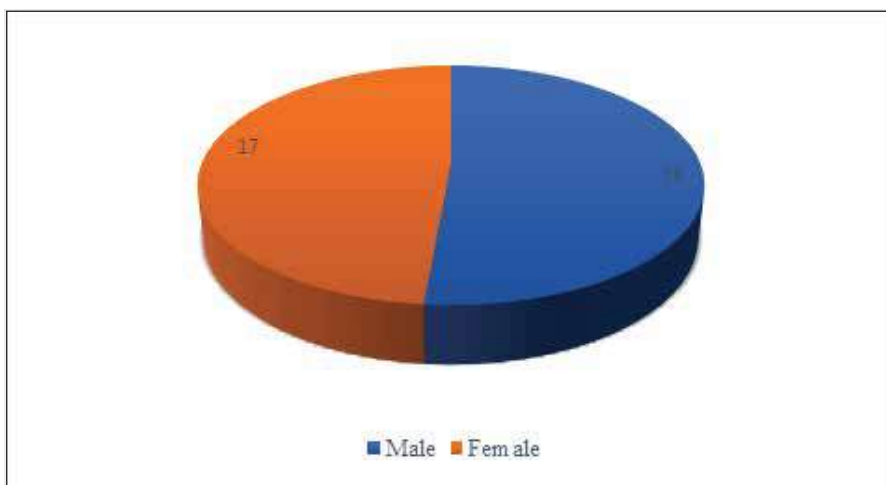


Figure III: Clinical Neurosurgery Male & Female (Pink Unit) Mortality

Clinical Neurosurgery- (Pink Unit)

Male and Female Patient ratio:

Male = 175

Female = 208

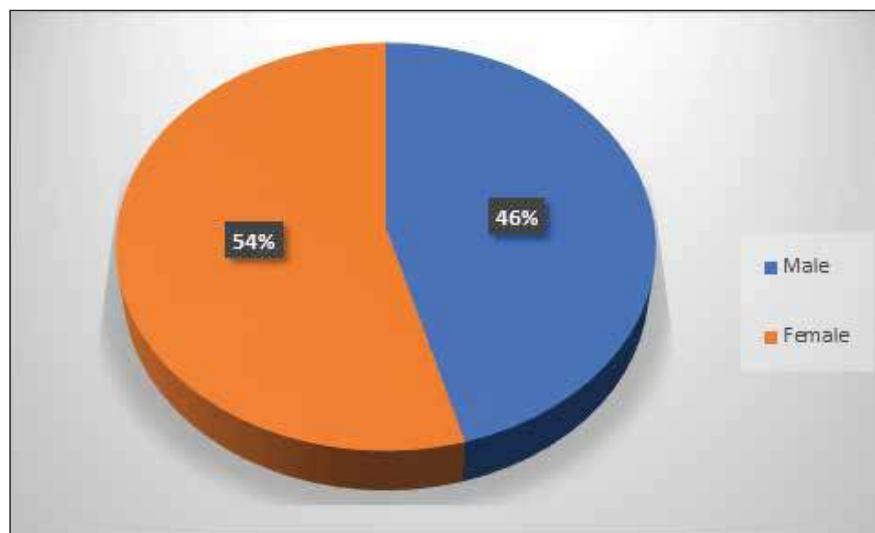


Figure IV: Male and Female Patient ratio

Table 2: Total Summary of Diseases Clinical Neurosurgery (Pink Unit):
(01 January 2021 to 31 December 2021)

SL .No.	Disease with total no. of patients (Spine)	Pink Unit
1.	1.Spinal Tumor	05
2.	2. Pott's Spine	01
3.	3. Cervical Fixation (ACDF)	00
4.	4.Dorsal Fixation	00
5.	5.Lumber Spondylolisthesis & Fixation	00
6.	6.PLID & Lumber Canal Stenosis	01
7.	07.AAD	03
8.	08.Others	00
Total		10

Clinical Neurosurgery- (Pink Unit)

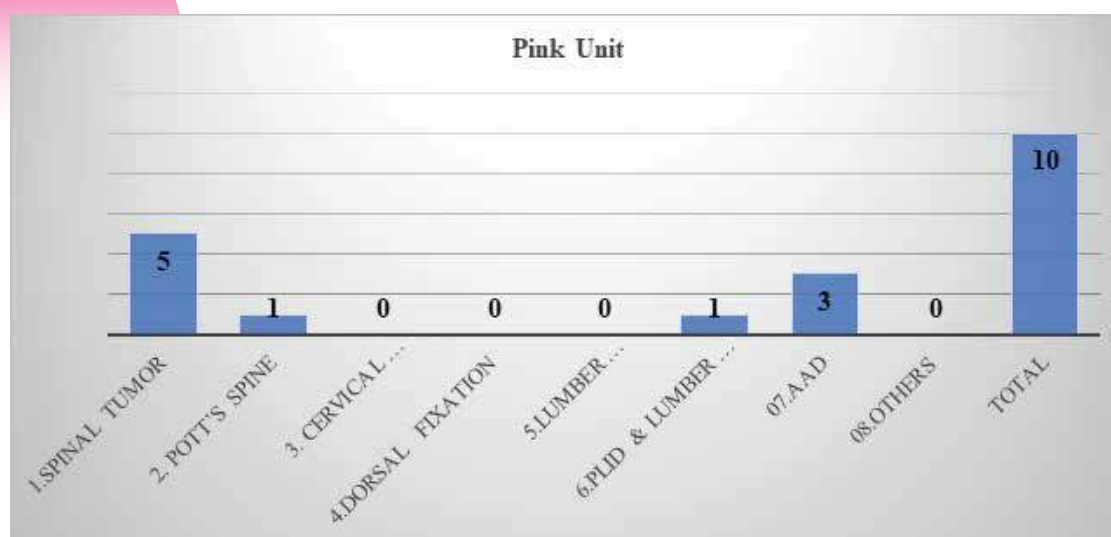


Figure V: Total Summary of Diseases Clinical Neurosurgery (Pink Unit)
(01 January 2021 to 31 December 2021)

Table 3: Category Wise Diseases Profile:
(01 January 2021 to 31 December 2021)

SL .No.	Cranial	Pink Unit
1.	CP Angle	25
2.	Post-Fossa Tumor	02
3.	Sellar & Supersellar Tumor	05
4.	Meningioma	38
5.	Glioma	36
6.	Chiari	01
7.	Endoscopic	00
8.	Pituitary	18
9.	Vascular/Aneurysm	117
10.	AVM	08
11.	Other Brain Tumor	16
12.	Cranioplasty	04
13.	Infection	05
14.	Emergency	18
Total Brain Tumor		293

Clinical Neurosurgery- (Pink Unit)

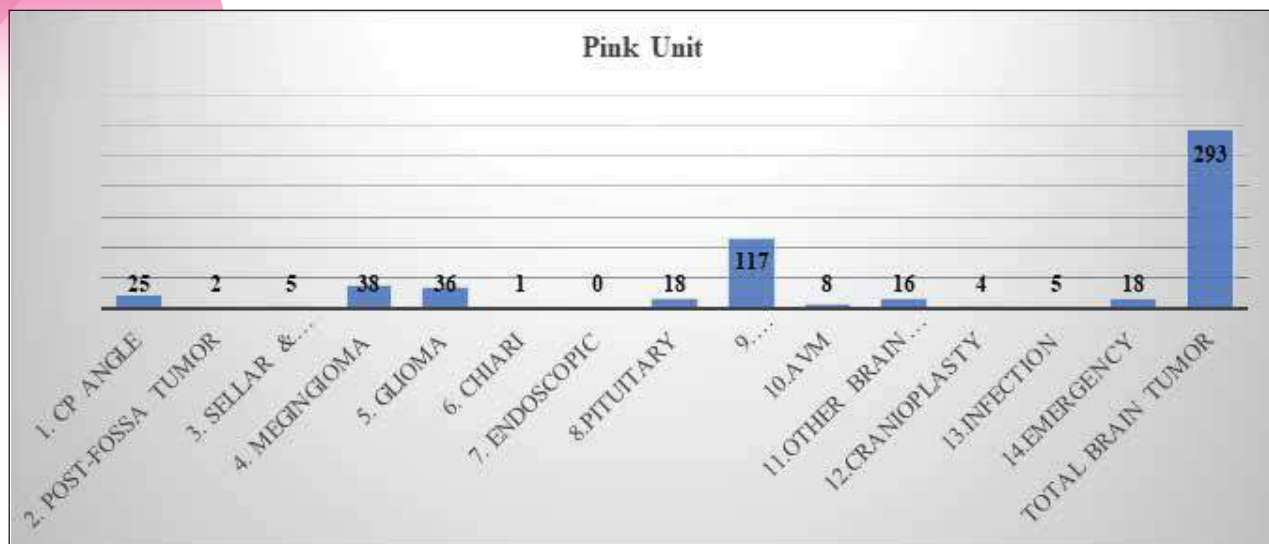


Figure VI: Category Wise Diseases Profile

Cranial: 293

1. Routine = 154
2. Emergency = 139

Spinal: 10

1. Routine = 10
2. Others = 00

Academic Activities:

Clinical Class (Morning Session) Every Saturday

Recommendations:

- Establishment of Surgical Neuro ICU.
- Replacement and Repair of Surgical Instruments.
- Data entry operator for proper documentation.
- Duty Medical Officer for Floor and Postoperative ward separately.

Limitations:

- Inadequate number of Scrub nurses in OT.
- Insufficient number of Anesthesiologists in the evening and night.

Department of Neurotrauma (Red Unit 1-2)



Table 1: List of the Faculties (Neurotrauma Red Unit-01)

SL. No	Name	Degree	Designation
1	Prof. Dr. Md. Abdullah Alamgir	MS (Neurosurgery)	Professor and Head
2	Dr. Md.Moazzem Hossain Talukder	MS (Neurosurgery)	Assistant Professor
3	Dr. Md.Ashraful Haque	MS (Neurosurgery)	Assistant Professor
4	Dr. Md.Manirul Islam	MS (Neurosurgery)	Assistant Professor
5	Dr. Mainul Hossain	MS (Neurosurgery)	Registrar
6	Dr. Mohammad Samsul Arefin	MS (Neurosurgery)	MO
7	Dr. Aninday Dus Gupto	FCPS (Neurosurgery)	MO



Neurotrauma (Red Unit 1-2)

Table 2: List of the Faculties (Neurotrauma Red Unit-02)

SL. No	Name	Degree	Designation
1	Dr. Md. Abdus Salam	MS (Neurosurgery)	Associate Professor
2	Dr. Md. Mahfuzur Rahman	MS (Neurosurgery)	Associate Professor
3	Dr. Kalim Uddin	MS (Neurosurgery)	Assistant Professor
4	Dr. Rafiqul Islam	MS (Neurosurgery)	Assistant Professor
5	Dr. Ismail Hossain	MS (Neurosurgery)	Junior consultant
6	Dr. Mostofa Newaz	FCPS (General surgery)	MO
7	Dr. Nur Muhammad	MS (Neurosurgery)	Assistant Registrar

Table 3: Total Summary of Neuro-Trauma Department (Red Unit 1)

(01 January 2021 to 31 December-2021)

Month	Neuro-Trauma Admission Unit-I	Discharge Unit-I	Death Unit-I	Tra-In-Out-Trauma Unit-I	
				In	Out
January	73	58	8	3	5
February	72	65	7	1	6
March	70	65	7	3	5
April	70	72	5	3	5
May	76	55	4	2	7
June	61	54	8	4	7
July	68	53	7	4	16
August	79	64	5	2	10
September	55	57	2	7	4
October	69	57	7	3	3
November	57	46	8	5	3
December	59	51	3	1	3
Total	809	697	71	38	74

Neurotrauma (Red Unit 1-2)

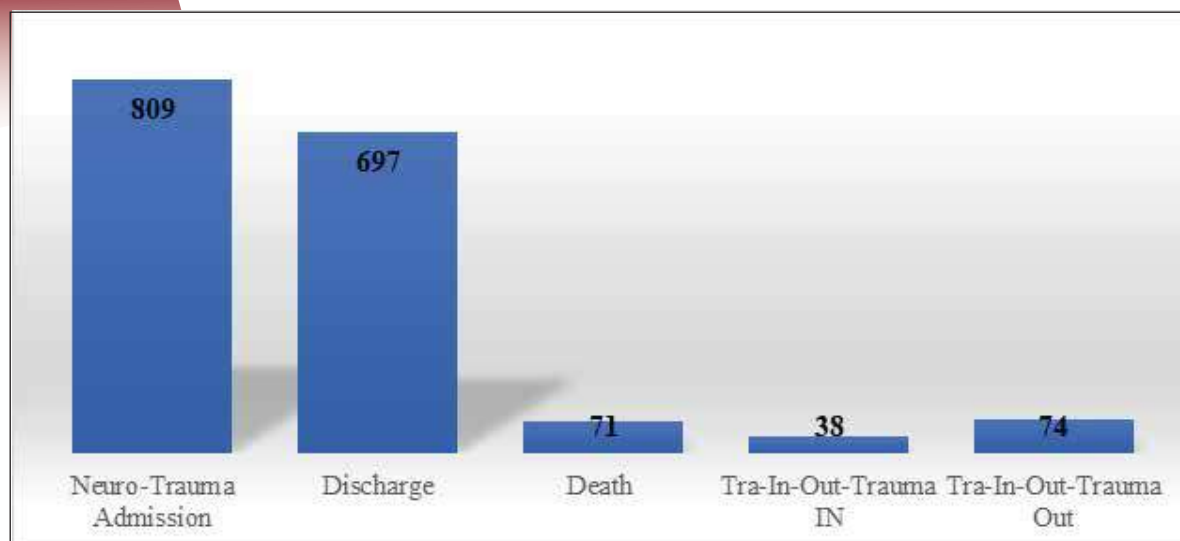


Figure I: Total Summary of Neuro-Trauma (Red Unit 1)

Table 4: Total Summary of Neuro-Trauma Department (Red Unit -2)

(01 January 2021 to 31 December-2021)

Month	Neuro-Trauma Admission	Discharge	Death	Tra-In-Out-Trauma	
	Unit-II	Unit-II	Unit-II	Unit-II	
				In	Out
January	77	67	10	-	2
February	62	51	4	-	4
March	66	55	7	3	3
April	87	71	7	2	4
May	81	80	6	3	7
June	75	66	7	3	5
July	83	71	6	3	7
August	72	67	5	1	7
September	66	69	5	6	8
October	92	88	3	3	3
November	54	80	5	1	2
December	78	62	12	2	4
Total	893	827	77	27	56

Neurotrauma (Red Unit 1-2)

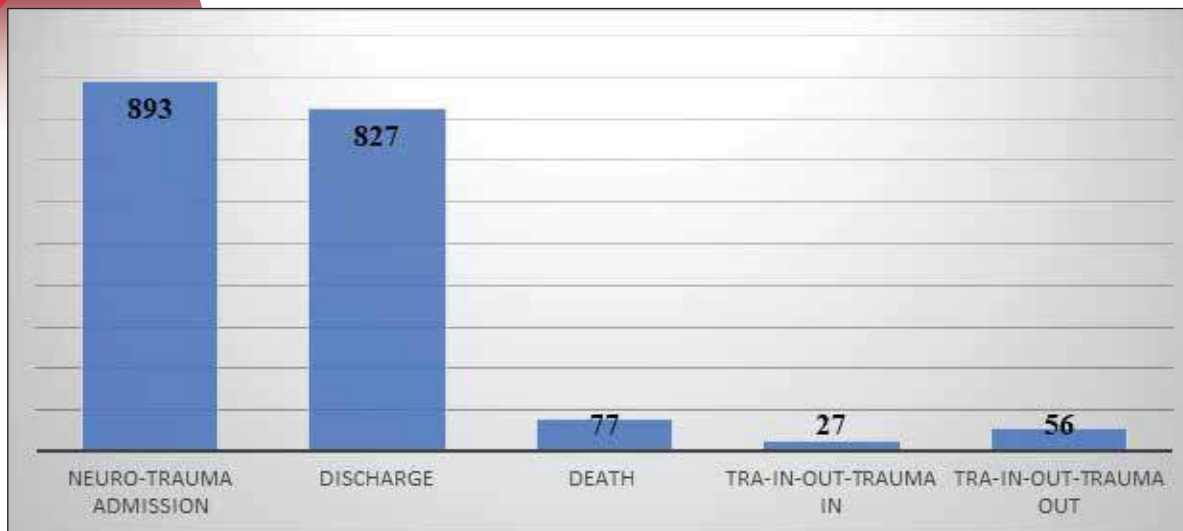


Figure II: Total Summary of Neuro-Trauma (Red Unit 2)

Total Neuro-Trauma Admission Patient Red Unit-I	=	809
Total Neuro-Trauma Admission Patient Red Unit-II	=	893
Grand Total	=	1732

Total Neuro-Trauma Discharge Patient Red Unit-I	=	697
Total Neuro-Trauma Discharge Patient Red Unit-II	=	827
Grand Total	=	1524

Total Surgery Admission Patient	=	10
Total Medicine Admission Patient	=	30
Grand Total	=	40

Department of Gamma Knife Surgery



Dr. Md. Shafiul Alam

Associate Professor

Department of Gamma Knife Surgery

National Institute of Neurosciences & Hospital



Gamma Knife Surgery



Figure I: Arranging a Scientific Seminar on Stereotactic Radiosurgery at Semi-Conference room of NINS.



Figure II: Visiting Gamma Knife Center of Samsung Hospital, South Korea.

Department of Neuro-Pathology



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Md Nowfel Islam	MBBS, MCPS, M.Phil, FCPS (Histo)	Professor & Head
2	Dr. Naila Haque	MBBS, MD (Pathology)	Assistant Professor
3	Dr. Sharmin Ara Nipa	MBBS	Medical Officer



Neuro Pathology

Table 2: Supporting Staff of the Department

SL. No	Name	Designation
1	Md. Alamgir Hossain	Medical Technologist
2	Fatema Khatun	Medical Technologist
3	Md. Nuruddin Adnan	Medical Technologist
4	Rakibul Islam	Medical Technician
5	Md. Hasan Mahmud	Medical Technician

Table 3: Service Wise Summary (01 January 2020 to 31 December-2020)

SL. No	Service Title	Quantity
1	BT, CT	1753
2	CBC	34232
3	CBC PBF	4820
4	CBC PBF ACANTHOCYTES	8
5	Circulating Eosinophil Count (TCE)	3
6	DC	4
7	D-Dimer	272
8	EMA	11
9	ESR	17
10	FNAC	106
11	Frozen Section	1
12	GFAP	11
13	Hb%	232
14	HCT	67
15	Histo 1	49
16	HISTO	992
17	IDH-1	8
18	Immunohistochemistry for s100 protein	4
19	Immunohistochemistry for s1	2
20	Immunohistochemistry GFAP	11

Neuro Pathology

Table 3: Service Wise Summary (01 January 2020 to 31 December-2020)

SL. No	Service Title	Quantity
21	Immunohistochemistry KI 67	34
22	Immunohistochemistry LCA	9
23	Immunohistochemistry NSE	2
24	Immunopanal CD 45	6
25	Immunopanal CD 99	1
26	Immunopanal Synaptophysin	3
27	Ki 67	12
28	PAS Stain	2
29	Platelet count	22
30	Prothombin Time (PT)	530
31	PT+APTT	3407
32	S-100	1
33	Stool for R/E	52
34	Stool for Reducing substance	1
35	Synaptophysin	1
36	TC	5
37	U.R/M/E	20089
37	Total	66780



Department of Microbiology



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. A.F.M Arshedi Sattar	MBBS, M.Phil	Associate Professor & Head
2	Dr. Md. Abdullah Yousuf	MBBS, M.Phil, MPH	Associate Professor



Microbiology

Table 2: Supporting Staff of the Department

SL. No	Name	Designation
01	Tania Begum	Medical Technologist
02	Sanzida Shuchi	Medical Technologist
03	Selim Reza	Medical Technologist
04	Shubhangkar Das	Medical Technologist
05	Mithu Chandra Sarker	Medical Technologist
06	Ripon Chandra Shil	Lab Technician
07	Sahanag Parvin	Lab Technician
08	Asadul Islam	Technician Laboratory Medicine
09	Sirajul Islam	Technician Laboratory Medicine
10	Nasrin Akter	Technician

Activities of the Department

1. Lab test Performed
2. Research activities
3. Academic Activities Performing

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Name of Test	Quantity
1	ANA	715
2	ANF	1
3	Anti ds DNA	81
4	Anti Acetycholine Receptor Antibody	91
5	Anti NMO	80
6	Blood C/S 2 Sample	2
7	Blood for C/S	490
8	Body of shunt tube for C/S	1
9	C ANCA	327
10	Catheter tip for C/S	12
11	CMV 1g G	1
12	CMV 1g M	1
13	C reactive Protien (CRP)	478

Microbiology

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Name of Test	Number
14	CSF for C/S	1092
15	CSF for Gram & AFB Staining	1230
16	Culture	1
17	CV line tip for C/S	7
18	Dengue IGG & IGM (ICT)	192
19	Dengue Ns1(ICT)	442
20	Fungus for C/S	1
21	HBs Ag Confirmatory test (ELISA)	28
22	HLA B27	97
23	HSV 1 Ig G	13
24	HSV 1 Ig M	13
25	HSV 2 Ig G	12
26	HSV 2 Ig M	12
27	IgE	165
28	Malaria Parasite Test (ICT)	19
29	Malaria Parasite Test (MP)	4
30	Malaria Parasite Test (Slide Method/MP)	2
31	P ANCA	328
32	PUS For Gram Staining	6
33	Pus for C/S	55
34	PUS For Gram & AFB Staining	11
35	Rheumatoid Factors (RF)	396
36	RV Ig G	2
37	RV Ig M	2
38	Shunt tube for C/S	5
39	Sputum for C/S	14
40	Sputum for Gram & AFB Staining	30
41	Stool for C/S	15
42	Throat Swab for C/S	10
43	Throat swab for Gram & AFB Staining	1

Microbiology

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Name of Test	Number
44	44	44
45	45	1
46	46	126
47	47	17
48	48	67
49	49	57
50	50	278
51	51	953
52	52	151
53	53	11
54	54	1
Total		8191

Department of Biochemistry



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Waseka Akhter Jahan	MBBS, M.Phil (Bio) MPH	Professor & Head
2	Dr. Sayeda Parveen Akhtar	MBBS, M.Phil (Bio)	Associate professor



Biochemistry

Table 2: Supporting Staff of the Department

SL. No	Name	Number
1	Medical Technologist	Five (5)
2	Medical Technician	Six (6)
3	Computer Operator	Null
4	MLSS	Two (2)
5	Aya	One (1)
6	Cleaner	One (1)

Activities of the department:

- Most of the Biochemical investigations are done in Biochemistry Laboratory of National Institute of Neurosciences & Hospital. Biochemistry Laboratory provide 24/7 hrs laboratory services for routing emergency & investigations. In the Biochemistry laboratory whole blood, serum Plasma, Cerebro spinal fluid (CSF) and others fluid Urine Samples are used for investigations. From 1 January 2018 to 31 December 2018 total 55208 No. of patients have got laboratory services. of them 70486 are male and 65745 female patients.
- We take part in several research activity. which are ongoing in our institute.
- We provide several training program, related to laboratory activities.

Table 3: Service Wise Summary (From 01 January 2021 to 31 December 2021)

SL. No	Service Title	Quantity
1	Cus	1
2	2hrs ABF+CUS	58
3	2hrs ABF	2252
4	2hrs after taking 75g Glucose	166
5	2hrs PP	1
6	AFP	304
7	AG Ratio	104
8	Albumin	1344
9	Alkaline Phosphatase	198

Biochemistry

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Service Title	Quantity
10	Ammonia	149
11	Amylase	35
12	Anti CCP	313
13	Bilirubin (Total)	962
14	BUN	10
15	CA 125	209
16	CA 15.3	109
17	CA 19.9	390
18	Calcium Total	1537
19	CD 34	2
20	CD-99	2
21	CEA	449
22	Chromogranin A	1
23	CK/CPK	836
24	CK MB	18
25	Cortisol Evening	102
26	Cortisol Random	3
27	Cortisol	783
28	C reactive Protein (CRP)sr	3981
29	Creatinine	37901
30	Electrolyte	33804
31	FBS + CUS	112
32	FBS	3438
33	Ferritin	2108
34	Folate	178
35	FSH	387
36	FT3	2369
37	FT4	7948
38	Fungus Stain	1
39	HbA1c	17750
40	HBsAg (CMIA)	1

Biochemistry

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Service Title	Quantity
41	Iron Profile	542
42	Iron	407
43	Ketone Body	81
44	Lactic Acid	50
45	LDH	83
46	LFT	189
47	LH	421
48	Lipase	47
49	Lipid profile	14533
50	Magnesium	618
51	OGTT 3 Sample	1
52	OGTT	1183
53	P 53	1
54	Phosphates	337
55	Phosphorus	2
56	Plasma Homocysteine	214
57	Prolactin	661
58	Protein (Urine)	1
59	PSA	363
60	PTH	1116
61	RBS + CUS	389
62	RBS	19175
63	S. Ceruloplasmin	222
64	SGOT (AST)	455
65	SGPT (ALT)	13854
66	Testosterone	145
67	TIBC	92
68	Total Protein	426
69	Troponin I	7873
70	TSH	13346
71	UIBC	8

Biochemistry

Table 3: Service Wise Summary (01 January 2021 to 31 December-2021)

SL. No	Service Title	Quantity
72	Urea	865
73	Uric Acid	2223
74	Urinary Electrolyte	30
75	Valporic Acid	5
76	Vitamin B12	515
77	Vitamin B12.	170
78	Vitamin D	732
Total		201691

Academic Activities/Research Activities

Deficit

1. As a Post graduate Referral Specialized Hospital Professor of Biochemistry Post should be created.
2. As Biochemistry Laboratory Provide 24/7 hrs service Medical officer post Should be created.
3. For further better Laboratory performance New Lab technologist Post should be created.
4. Biochemistry Laboratory should have much Broad space in future.

Future Plan: Expansions of laboratory according to demand

Recommendation:

- * ISO – prescribed laboratory to make
- * Skill manpower to make
- * Referral system trying to the work
- * Standard record system to provide

Department of Transfusion Medicine



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Prof. Dr. Ferdous Ara	MBBS, MTM (TM)	Professor & Head
2	Dr. Kaniz Fatema	MBBS	Assistant registrar
3	Dr. Fatema Ahmed	MBBS, MD (Haematology)	Medical officer
4	Dr. Sharmin Shahnaz	MBBS	Principal Medical Physicist
5	Dr. Sabrina Islam	MBBS, DBS&T	Medical officer



Transfusion Medicine

Table 2: Supporting Staff of the Department

SL. No	Name	Designation
1	Md. Abedur Rahman Sarker	Medical Technologist
2	Md. Zakir Hossain	Medical Technologist
3	Muslima	Medical Technologist
4	Ripon Kumar	Medical Technologist
5	Md. Aynal Haque	Medical Technologist
6	Md. Omar Faruk	Technician
7	Md. Rokonuzzaman	Technician
8	Md. Joynul Abedin	Lab. Technician
9	Sharmin Sultana	Lab. Technician

Table 3: Facilities Available

SL. No	Name of Section	Facilities Available
1	Donor Selection & Counseling	<ul style="list-style-type: none"> • Help donor to fill up donor selection form. • Physical examination of donor by doctor. • Proper counseling of donor for donation of blood. • Pre & post donation care of donor. • Counseling of donor and patient if any screening test become positive and taking needful action.
2	Sample Collection	<ul style="list-style-type: none"> • From patient & donor.
3	Serology	<ul style="list-style-type: none"> • Blood Grouping • Screening • Cross Matching • Coomb's test (Direct & Indirect)
4	Whole Blood Collection	<ul style="list-style-type: none"> • Collection in single, double or triple blood bag according to requirement.
5	Component Preparation	<ul style="list-style-type: none"> • RCC (Red Cell Concentrate) • FFP (Fresh Frozen Plasma) • RDP (Random Donor Platelet) • PRP (Platelet Rich Plasma)
6	Day Care Services	<ul style="list-style-type: none"> • Transfusion facilities are available in day care center from 08:00 am to 02:30 pm.
7	Apheresis	<ul style="list-style-type: none"> • Therapeutic Plasma Exchange (TPE)
8	Blood Letting	<ul style="list-style-type: none"> • Blood letting as per requirement

Transfusion Medicine

Services were provided (From 01 January 2021 to 31 December 2021)

- Blood Grouping: 14612
- Cross Matching: 6396
- Whole blood collection: 3500
- Total Screening of donor's blood:

Table 4: Total Screening of doner's blood (From 01 January 2021 to 31 December 2021)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total no. of Donor
Donors No	447	337	505	351	391	504	408	431	526	584	592	520	5596

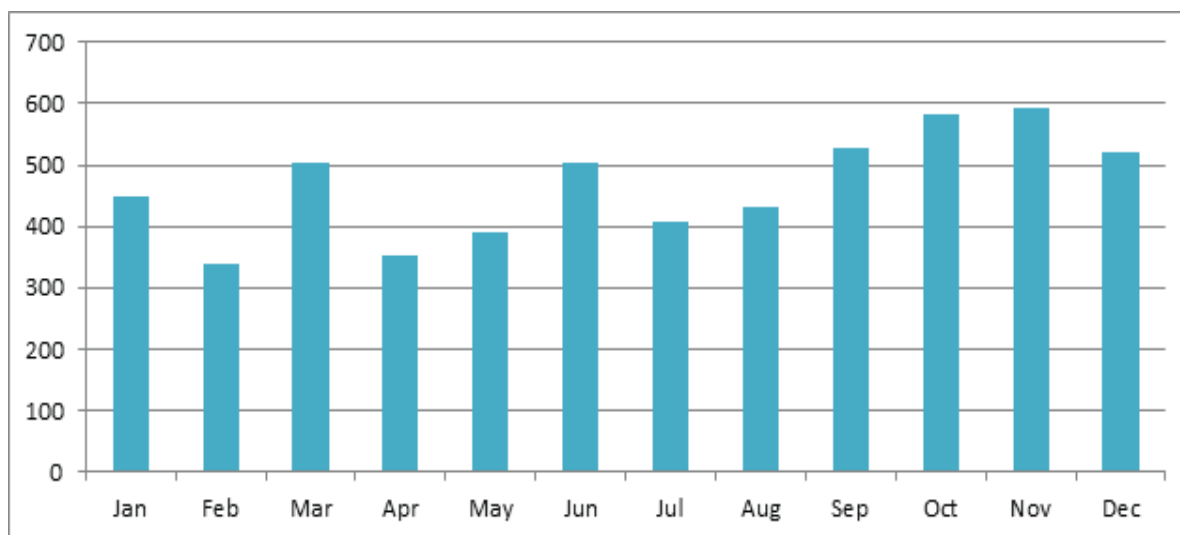


Figure I: Total Screening of doner's blood

Transfusion Medicine

Male/Female ratio of donors:

Male = 5322

Female = 274

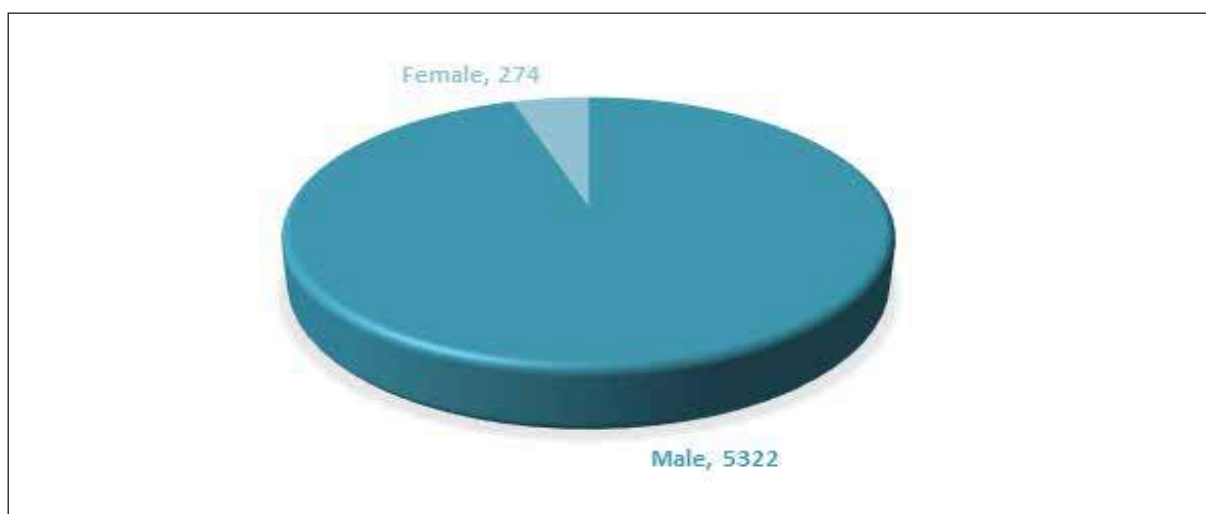


Figure I:

Table 5: Total Screening of Patient's blood (From 01 January 2021 to 31 December 2021)

Month	HBsAg	Anti HCV	Anti HIV	VDRL	MP
January	362	312	260	119	03
February	308	288	231	108	01
March	429	383	311	125	03
April	263	246	218	70	07
May	342	319	280	78	02
June	422	376	315	118	02
July	276	261	227	48	05
August	455	410	362	105	04
September	480	431	415	154	10
October	460	407	381	128	02
November	463	412	380	135	07
December	491	430	400	158	09
Total	4751	4275	3780	1346	55

Transfusion Medicine

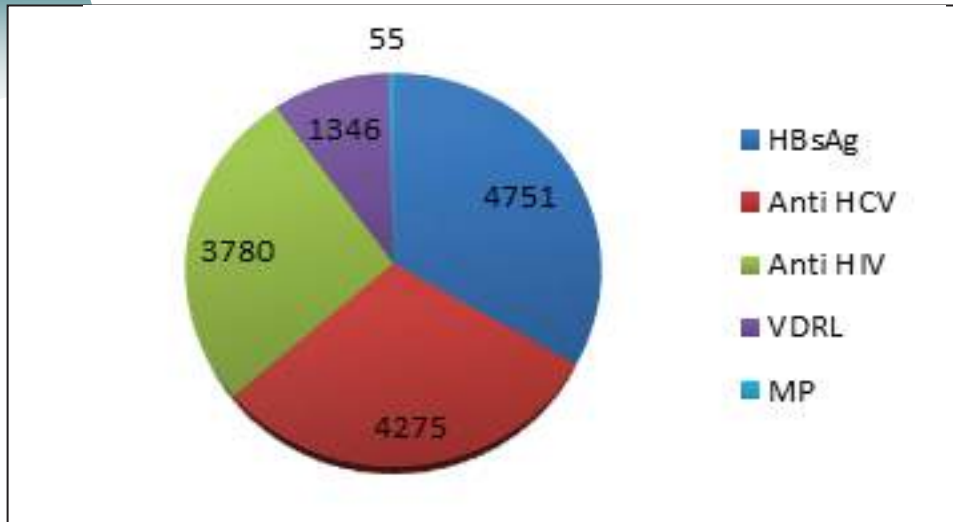


Figure II: Total Screening of Patient's blood.

Table 6: Total Component Preparation (From 01 January 2021 to 31 December 2021)

FFP (Fresh Frozen Plasma)	1062
RCC (Red Cell Concentrate)	254
Platelet (Random)	35
Aphaeretic Platelet	17

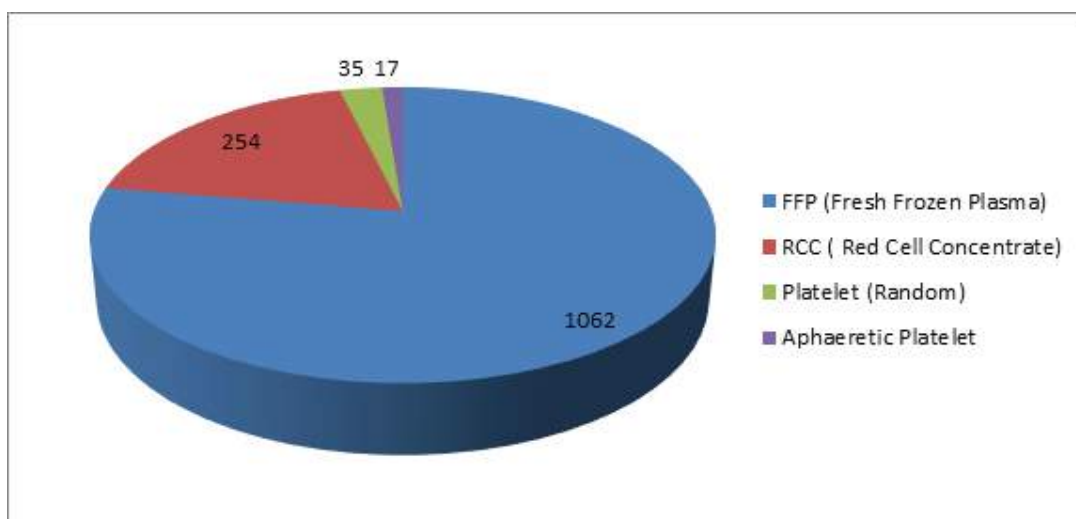


Figure III: Total Component Preparation

Transfusion Medicine

Therapeutic Plasma Exchange:

We feel proud to serve patients who have been suffering from autoimmune disease by therapeutic plasma exchange with minimum cost. There are various types of machines are available in Transfusion medicine department at NINS. Among them three are continuous flow machine named as COMTEC Fresenius kabi (Germany), Optia (USA), Cobe spectra (USA) and one is intermittent flow machine (Haemonetics). Therapeutic plasma exchange was first introduced at National institute of Neuroscience & Hospital (NINS) from February 2014. Usually for each patient we did five (more or less) session plasma exchange.

Table 7: Total Therapeutic Plasma Exchange (TPE) (From 01 January 2021 to 31 December 2021)

Diseases	Cases
GBS	35
MG	15
CIDP	03
AIDP	07
ADEM	01
AMSAN	01
NMOSD	01
Total	63

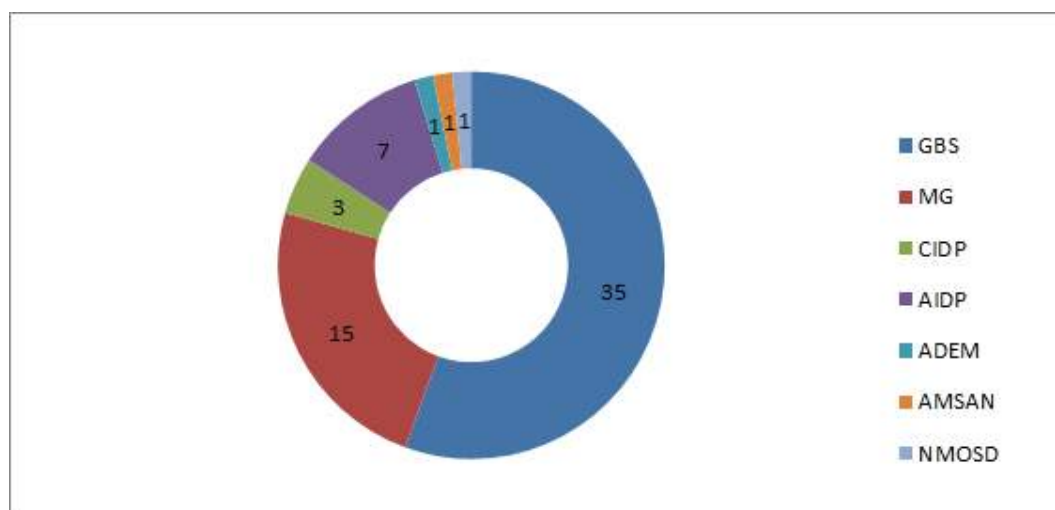


Figure IV: Therapeutic Plasma Exchange (TPE).

Transfusion Medicine

Day care services:

From 08:00 am to 02:30 pm we have day care transfusion services for outdoor patient. We have refrigerated cell separator machines to make RCC, FFP, PRP, RDP etc. from a single whole blood. Plateletpheresis and blood letting are also available in our department. Following number of patients were transfused with Red cell concentrate or Platelet or Whole blood for correction of severe Anaemia due to Thalassemia, Chronic kidney disease(CKD), Leukemia, Myelodysplastic syndrome(MDS), Ganglioneuroblastoma and other Oncological emergencies.

Table 8: Monthly distribution of day care (blood transfusion) Services
(From 01 January 2021 to 31 December 2021)

Month	Number of Patient
January	16
February	14
March	20
April	11
May	10
June	10
July	04
August	08
September	15
October	15
November	15
December	09
Total day care transfusion	147

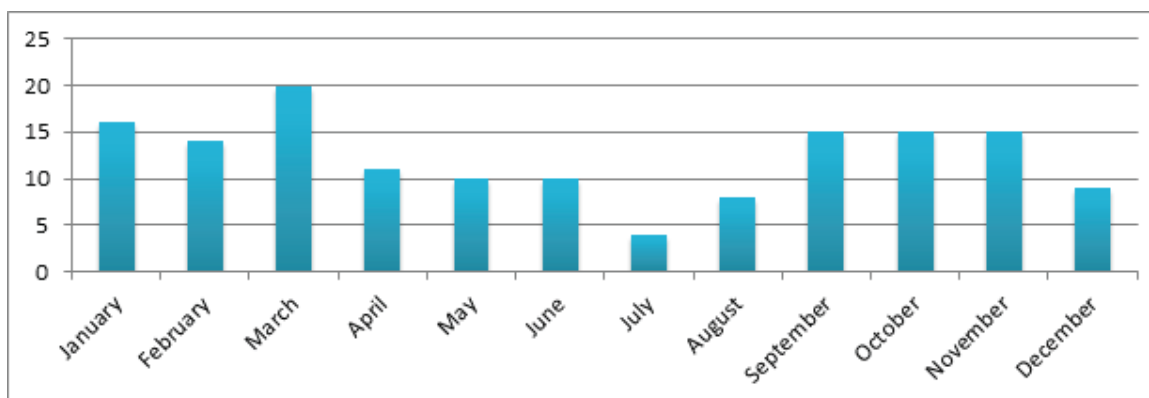


Figure V: Monthly distribution of day care (blood transfusion) Services

Transfusion Medicine

Table 9: Others Activities:

Activity	Spectrum
Academic Activity	I. Placement of post-graduate students of Transfusion medicine from other medical colleges and Medical Technologist. II. Training of junior doctor, technologist and nurses with collaboration of safe blood program.
Research Work	Data Collection on plasma exchange, Donor selection, Transfusion Transmitted Infection (TTI).

Table 10: Available Instruments:

SL No	Name of Instruments	Quantity
1.	Blood Bank Refrigerator Make: SANYO (Japan) Model: MBR-1405 GR	02
2.	Automated Refrigerated Centrifuge Machine/Blood Cell Separator Make: MSE (UK/UE) Model: CELLSEP6/120R	01
3.	Table Top Centrifuge Machine Make: Domel/Technical Model: Centric 322A	01
4.	Apheresis System » Continuous flow machine: a. COMTEC Make: Fresenius KABI (Germany/EU) Model: COM.TEC b. Cobe Spectra Make: USA c. Optia Make: USA » Intermittent flow machine: a. Haemonetics	04
5.	Hot Air Oven Make: Memmert (Germany/EU) Model: UFE500	01

Transfusion Medicine

Table 11: Available Instruments:

SL No	Name of Instruments	Quantity
6.	Plasma Extractor/Separator Make: LMB Model: PE100	01
7.	Patient Monitor	01
8.	Deep Freezer (- 40°C) a. Make: SANYO (Japan) Model: MDF-U443 b. Make: Fiocchetti (Italy) Model: DMS0702	02
9.	Compound Microscope Make: Euromex Novex (Netharland /EU) Model: 86.075-Spec	03
10.	Weight Machine	02
11.	Laboratory Shaker Make: Grant Model: PSU-20j; PUP-330; PP-20 (3 Level)	01
12.	Domestic Refrigerator	01
13.	Computer	01
14.	Printer	01
15.	Water Bath (0-100°C) Make: Demel/Technica Model: Digital	02

Transfusion Medicine

• Manpower Shortage:	
Assistant Professor	01
Computer Operator	01
Record keeper/Research Assistant	01
Nurse (According to Gadget)	01
Assistant Staff (Accounts)	01
M.L.S.S	01
Cleaner	01
01	

• Instrument Shortage:	
Blood Collection Monitor	02
Tube Sealer	02
VDRL Shaker	02
Online UPS	01
Pharmaceutical Refrigerator	01
Plasma Thawing Machine	01
Plasma extractor	01
Micropipette with ejector	06
Table Top Centrifuge Machine	02
Computer with Printer	01
Stabilizer	02

• Space Shortage:	
Phlebotomy Room	01
Post Donation care room for Donor	01
Day Care Center for blood transfusion of patient	01
Room for Medical officer	01
Room for Professor	01

Department of Neuroradiology & Imaging



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Nazmun Nahar	MBBS, M Phil, MD	Associate professor & Head
2	Dr. AKM Golam Kabir	MBBS, MD	Associate professor
3	Dr. Wahida Begum	MBBS, MD	Associate professor
4	Dr. Showkat Ara	MBBS, M Phil	Associate professor
5	Dr. Nazrul Islam	MBBS, MD, FCPS	Associate professor
6	Dr. Tariqul Islam	-	-
7	Dr. Abdul Alim	MBBS, MD	Assistant Professor
8	Dr. Shahriza Sinha	MBBS, MD	Assistant Professor
9	Dr. Roksana Ahmed	MBBS, MD	Assistant Professor
10	Dr. Zerine Haque	MBBS, M Phil	Junior consultant
11	Dr. Durga Deves Sarker	MBBS, MD	Junior consultant
12	Dr. Sadia Noor Arabi	MBBS, MD	Junior consultant



Neuroradiology & Imaging

Organogram:

Designation	Sanctioned post	Current status
Professor	One (01)	Filled
Associate Professor	One (01)	Filled
Assistant Professor	Three (03)	Filled
Medical officer	Three (03)	Filled
Junior Consultant	Three (03)	Filled
Medical officer	One (01)	Filled
OSD Associate Professor	Three (03)	
SSN	Two (02)	Filled
Medical technologists	Twenty (20)	Filled

Computer operator, Attendant, Stretcher Bearer, MLSS and Cleaner also served in this department.

Introduction:

Neuro-Radiology & Imaging department started its journey from 2012 A group of mid level & junior radiologists serving the department. There is constant support by the medical technologists, nurses, computer operators, attendants, stretcher bearer and cleaners.

There is tremendous uplift of imaging science in last 2-3 decades especially in the field of Neuro-Radiology & Interventional radiology. This department making continuous effort to cope up with the development.

We have three wings of activities. These are- Service wing, Academic wing & Research wing.

Service wing-

We provide imaging services for indoor, outdoor & emergency patients. Several other institutes also take the imaging services from this hospital for clinical, academic and research purposes.

Academic wing-

Our academic activities are:

- Radiological teaching classes for the junior doctors of this department.
- Radiological teaching classes for neurology & neurosurgery post graduate students.
- Radiological teaching classes for radiology PG students from other institutes of Bangladesh.

Research wing

A few research works are going on. Collaborating research work is going on with ICDDRB and another one is under processing with an UK medical institute.

Neuroradiology & Imaging

Table 2: NUMBER OF TOTAL NEURO-RADIOLOGICAL EXAMINATION

(From 01 January 2021 to 31 December 2021)

Month	MRI	CT	X-RAY	USG
January	739	4844	3124	21
February	675	4290	3117	15
March	733	4661	3458	34
April	489	2933	1998	06
May	505	3480	2094	26
June	753	4246	3153	38
July	597	3312	3389	23
August	802	4513	3358	42
September	930	5084	3319	45
October	887	5058	3762	48
November	946	4710	3320	44
December	822	4666	2960	43
Total	8,878	51,797	37,552	385



Figure I: Total Summary of Neuro-Radiological MRI Examination

Neuroradiology & Imaging

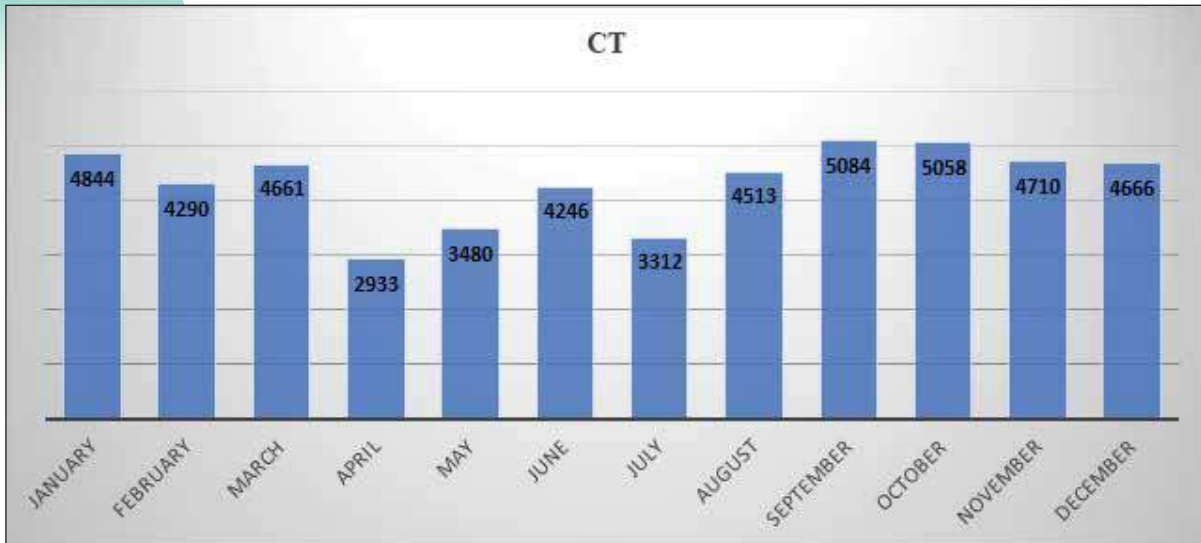


Figure II: Total Summary of Neuro-Radiological CT Scan Examination

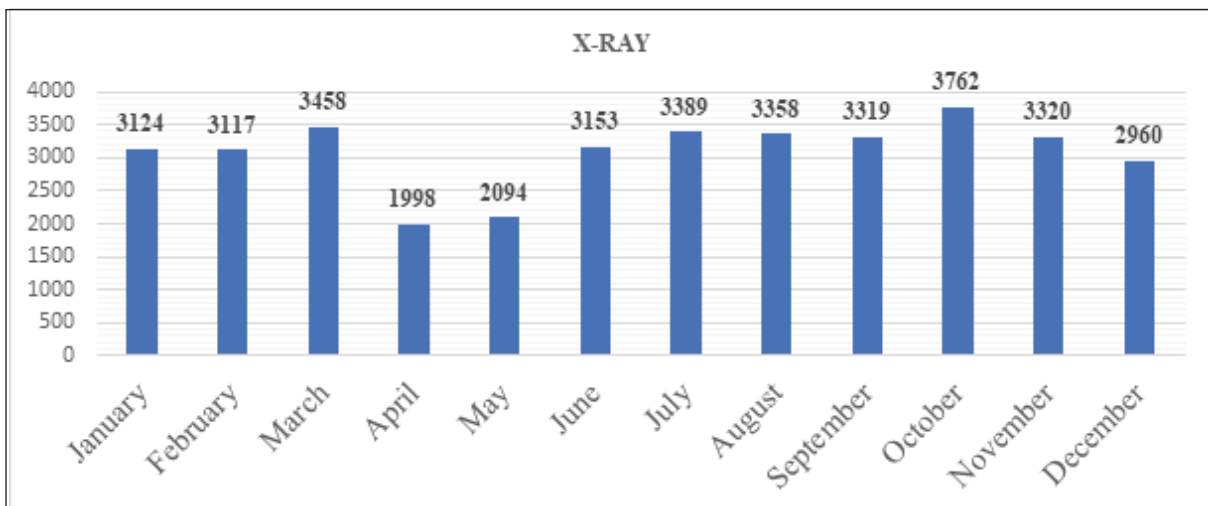


Figure III: Total Summary of Neuro-Radiological X-Ray Examination

Neuroradiology & Imaging

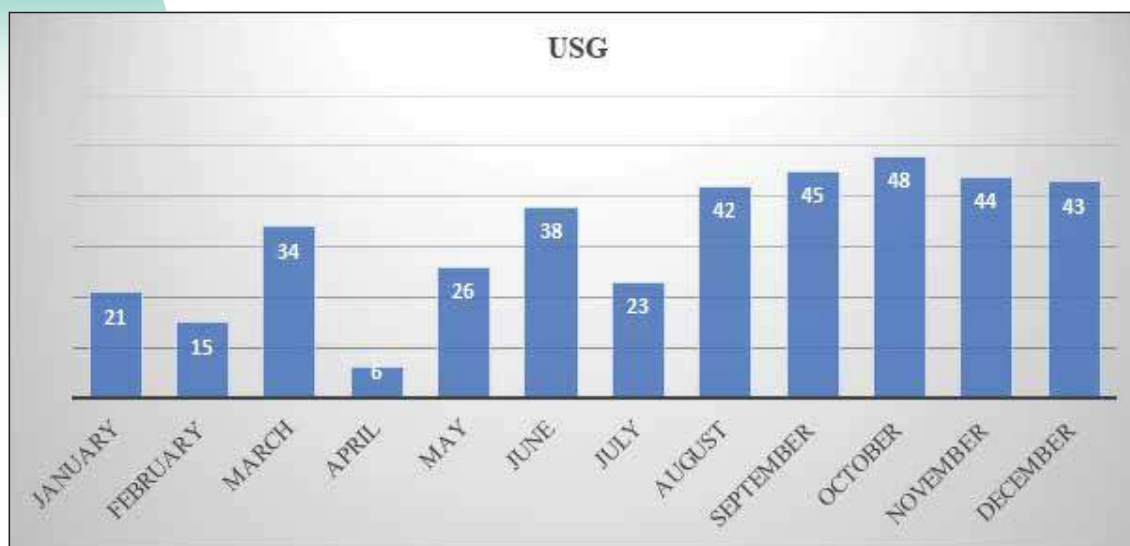


Figure IV: Total Summary of Neuro-Radiological USG Examination

Limitations:

Clinical –

- Excess demand for imaging services that goes beyond the capacity of the department. Quantity of services increased due to excess demand and quality has been compromised.
- Neuro-radiology and general radiology services are amalgamated since the general radiology department is absent.
- Due to social, political and bureaucratic preferences patient serial and appointment date is frequently interfered.
- There is lack of digital/computerized appointment system and apparently local authority is also reluctant.
- No training facility for radiologists & medical technologists.
- No feed back system.
- No ideal referral system & incomplete request forms.
- Too much of non-neuro cases enrolled in the OPD for imaging services-like limb vascular doppler, abdominal ultrasounds, pregnancy profile imaging, joint imaging etc.

Research-

- Comparing with the patient load research output is really negligible.

Academic-

- Relatively poor academic activities. Doctors and whole of the department is too much busy for clinical services.

Neuroradiology & Imaging

Limitations:

Others-

- The ratio between radiologists & clinical members is not fixed.
- No radiology archive.
- No PACS / RIS facility. Defective report delivery system, too much wasting of time.
- No fixed time based appointment system, only day appointment is given so for an MRI, a patient may have to wait from 08 am morning to 02: 30 pm or longer.
- No quality monitoring system, authority is mostly concerned with quantity.
- No research officer.

Recommendations:

- Immediate establishment of computerized appointment system.
- Planning for radiology archive, PACS / RIS facility.
- Research officer appointment.
- Planning for MD Neuro-radiology course.
- Internal storing, account wing establishment.
- Strengthening honorary physician appointment system and making attractive -? Financial backup.
- Strengthening Radiation protection monitoring.

Department of Cardiology



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Amanullah Bin Siddiq	MD (Cardiology)	Assistant Professor



Cardiology

Table 2: Supporting Staff of the Department

SL. No	Name	Designation
1	Selim Azad	Technician Equipment ECG Lab
2	Rina Khatun	Technician Equipment ECG Lab
3	Asia Begum	Stretcher Bearer
4	Hasina	Aya
5	Shila Khatun	Aya
6	Morsheda Begum	Aya
7	Munnaf	Wardboy
8	Al Amin	Wardboy
9	Md. Rahad Mulla	Wardboy

Table 3: Total Summary of ECG (From 01 January 2021 to 31 December 2021)

SL. No	Month	Total	Free	Amount
1	January	1619	15	1,28,320
2	February	1419	11	1,12,640
3	March	1795	18	1,42,160
4	April	1517	14	1,20,240
5	May	1241	10	98,480
6	June	1574	13	1,24,880
7	July	1291	09	1,02,560
8	August	1655	17	1,31,040
9	September	1833	19	1,45,120
10	October	1698	16	1,34,560
11	November	1668	14	1,32,320
12	December	1529	12	1,21,360
Total		18839	168	1,493,680

Cardiology

Table 4: Total Summary of ECHO 01 January 2021 to 31 December 2021

SL. No	Month	Total	2D	CD	Free	Amount
1	January	173	158	02	13	63,400
2	February	141	134	02	05	56,200
3	March	176	169	03	04	65,800
4	April	116	112	02	02	34,200
5	May	121	115	03	03	40,800
6	June	170	165	01	04	28,000
7	July	139	134	03	02	39,800
8	August	170	160	08	02	49,800
9	September	135	127	04	04	57,600
10	October	195	182	03	10	38,200
11	November	203	192	04	07	40,800
12	December	211	193	03	15	40,400
Total		1950	1841	38	71	555,000

Department of Psychiatry



Name of the Faculty

1. **Dr. M M Jalal Uddin**
MBBS, FCPS (Psychiatry)
Associate Professor
Department of Psychiatry
Email: jalal29march@yahoo.com
Website: www.jalal-uddin.com



2. **Dr. Surajit Kumar Talukder**
MBBS, FCPS (Psychiatry)
Assistant Professor
Department of Psychiatry



Psychiatry

Activities of the Department of Psychiatry, Year 2021

1. **Services to the patients**
 - a) Treatment
 - b) Mental health education
 - c) Counseling
2. **Teaching**
 - a) Undergraduate students
 - b) Post graduate students
3. **Research activities**
 - Services to the patients

Table 1: Department wise referral pattern of patients to Psychiatry department
(From 01 January 2021 to 31 December 2021)

Department	Out patients	Inpatients	Total
Neurology	6723	109	6832
Neurosurgery	63	15	78
Pediatric neurology	611	12	623
Pediatric neurosurgery	9	2	11
Physical medicine	67	0	67
Total	7464	136	7600



Psychiatry

Table 2: Common diagnosis of the patients referred to psychiatry department
(From 01 January 2021 to 31 December 2021)

Disease	Number of patients	Percent
Autism spectrum disorder	48	0.63
Attention-Deficit/ Hyperactivity Disorder (ADHD)	310	4.09
Acute stress disorder	35	0.46
Bipolar disorder	410	5.43
Brief psychotic disorder	24	0.32
Borderline personality disorder	112	1.47
Conversion disorder	490	6.48
Delusional disorder	98	1.29
Dementia	77	1.01
Generalized anxiety disorder	291	3.82
Intellectual disability	37	0.49
Insomnia disorder	309	4.06
Major depressive disorder	2020	26.55
Obsessive-compulsive disorder	546	7.17
Panic disorder	242	3.18
Post-traumatic stress disorder	88	1.16
Schizophrenia	906	11.90
Seizure disorder	215	2.82
Somatic symptom disorder	980	12.92
Substance use disorder	103	1.35
Others	259	3.40
Total	7600	100.00

- **Teaching**

- I. **Undergraduate students:** B Sc Physiotherapy Course

- Psychology – First year students of B Sc Physiotherapy students of National Institute of Traumatology and Orthopedic Rehabilitation (NITOR)

- Psychiatry – Fourth year students of B Sc Physiotherapy students of NITOR

- II. **Postgraduate students:**

- Psychiatry – MD and MS students of different disciplines placed in NINS

- **Research Activities**

- Actively involved in different research activities

Department of Critical Care Medicine



Table 1: List of the Faculties

SL. No	Name	Degree	Designation
1	Dr. Md Sirajul Islam	MD (CCM) MCPS (Medicine)	Assistant Professor
2	Dr. Uzzwal Kumar Mallick	MD (CCM)	Assistant Professor
3	Dr.Md. Shakhawat Hossain	DDV	Jr. Consultant
4	Dr. Kazi Ekramul Haque	-	Assistant Registrar
5	Dr.Farhana Mamtaz Papree	-	Medical Officer
6	Dr. Nurjahan begum	MD (CCM)	Medical Officer
7	Dr. Sayed Iftekhar	-	Medical Officer
8	Mohammad Safayet Kamal	FCPS (Medicine)	Medical Officer
9	Dr. Choudhury Fuad Galib	MD (Pediatric)	Medical Officer



Critical Care Medicine

Supporting Staff of ICU

- Nursing staff- 25
- ICU sister incharge: Dewan Anjuman Ara Begum
- Ward boy 06, Aya -06
- Cleaner- 04

Supporting Staff of HDU

- Nursing staff- 13
- HDU sister Incharge: Mitu Sarker
- Ward boy 05, Aya 04
- Cleaner- 03

Table 2: Intensive Care Unit (ICU) Patients Profile of Neuromedicine
yearly patient's statement (From 01 January 2021 to 31 December 2021)

SL. No	Name of consultant	Unit	Total patients	Total expired	Total discharge	Total DORB	Total transfer out
1	Prof. Dr Quazi DeenMohammad	Red	14	03	0	01	10
2	Prof. Dr Badrul Alam	Blue	26	06	04	0	16
3	Prof. Dr Azharul Haque	Yellow	22	02	02	02	14
4	Prof. Dr Maliha Hakim	Orange	20	05	0	02	13
5	Prof. Dr Sharif Uddin Khan	Pink	36	02	0	04	30
6	Prof. Dr Mohibur Rahman	White	12	0	0	0	12
7	Asso Prof. Dr Poritosh Kumar Sarker	Green	19	06	1	0	12
8	Asso Prof. Narayan Chandra Shaha	Pedi NM	11	02	01	0	10

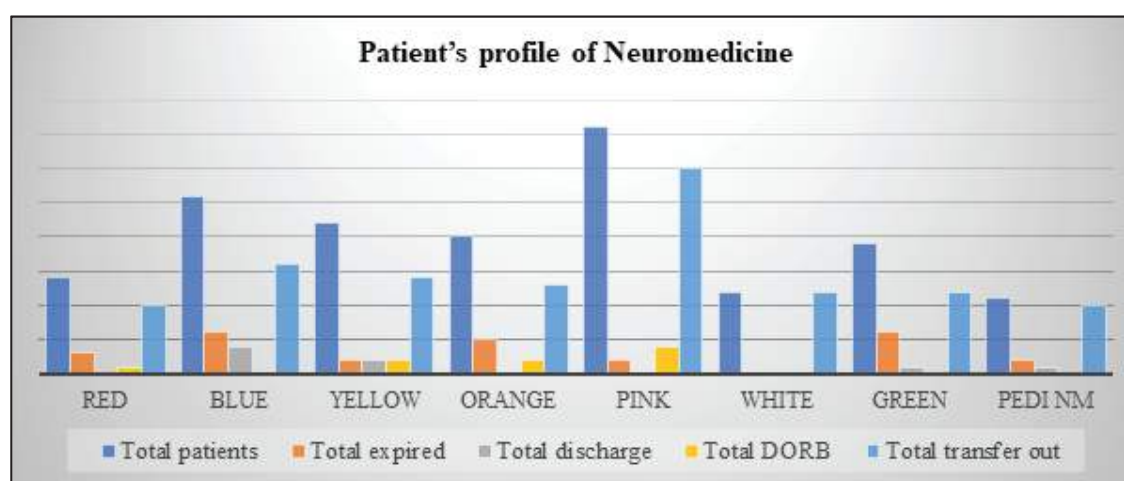


Figure I: Intensive Care Unit (ICU) Patients Profiles of Neuromedicine

Critical Care Medicine

Table 3: Grand Total ICU of Neuromedicine (From 01 January 2021 to 31 December 2021)

SL. No	Title	Grand Total
1	Total patients	162
2	Total admission- E/R	0
3	Transfer in	162
4	Transfer out	117
5	Total death	26
6	DORB	10
7	Total discharge	09

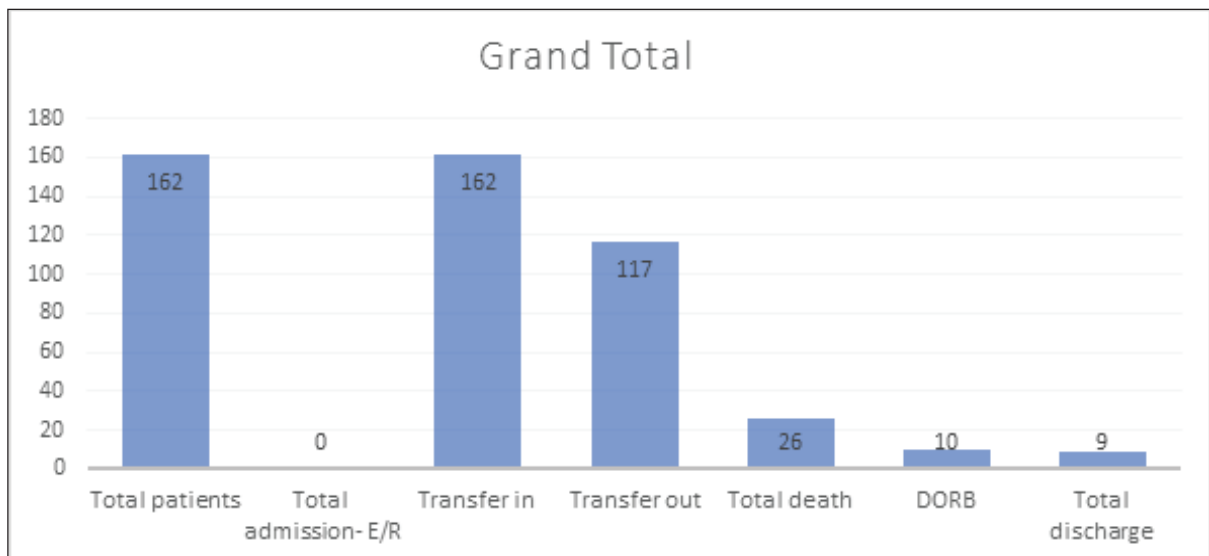


Figure II: Grand Total ICU of Neuromedicine

Critical Care Medicine

Table 4: Intensive Care Unit (ICU) Patients Profile of Neurosurgery Yearly patient's (01 January 2021 to 31 December 2021)

SL. No	Name of consultant	Unit	Total patients	Total expired	Total discharge	Total DORB	Total transfer out
1	Prof. Dr SK. Sader Hossain	Green	05	03	0	0	02
2	Asso Prof. Dr.Md. Joinul Islam	Pink	04	01	0		03
3	Prof. Dr Mirza Hafizur Rahman	Yellow	02	0	0	0	02
4	Asso Prof. Dr Moklasur Rahman	Blue	05	04	0	0	01
5	Prof. Dr Zahed Hossain	Neurotrauma-1	14	04	0	0	10
6	Asso Prof. Dr Abdus Salam	Neurotrauma-2	08	05	0	0	03
7	Prof. Dr Md Ekramullah	Pedi NS	15	03	0	0	12

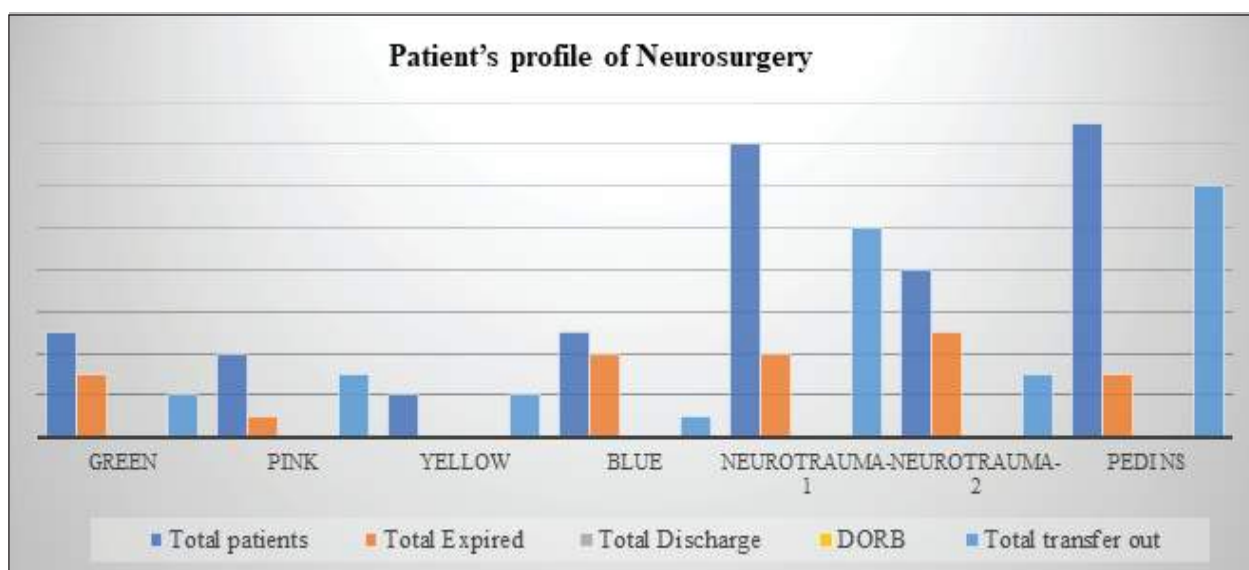


Figure III: Intensive Care Unit (ICU) Patients Profiles of Neurosurgery

Critical Care Medicine

Table 5: Grand Total ICU of Neurosurgery (From 01 January 2021 to 31 December 2021)

SL. No	Title	Grand Total
1	Total patients	52
2	Total admission- E/R	01
3	Transfer in	52
4	Transfer out	33
5	Total death	20
6	DORB	0
7	Total discharge	0

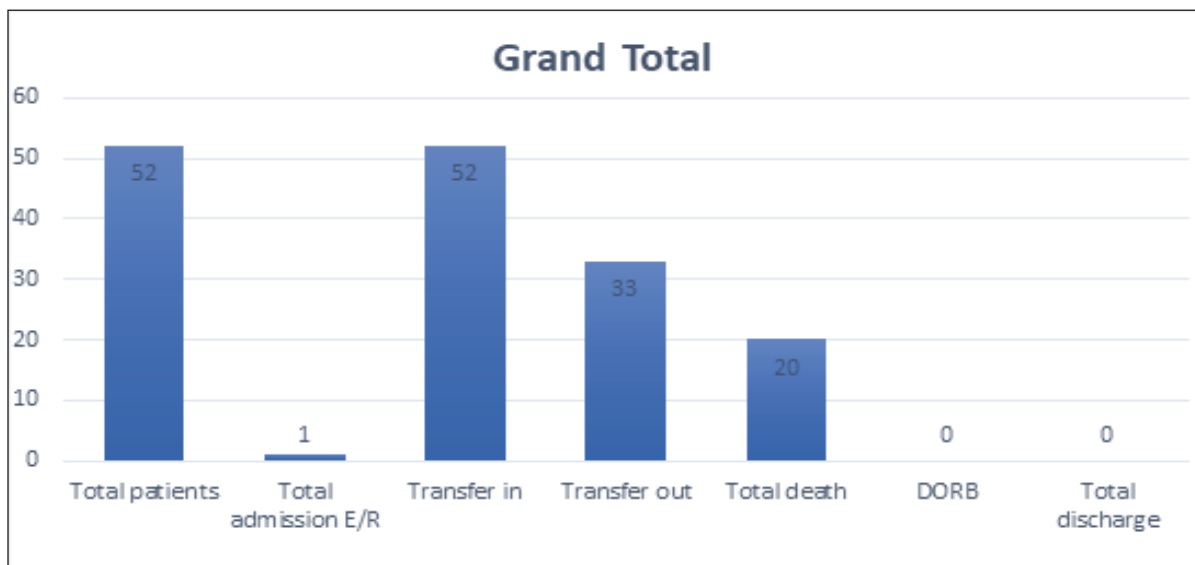


Figure IV: Grand Total ICU of Neurosurgery

Critical Care Medicine

Table 6: HDU Patients Profiles of Neuromedicine
(From 01 January 2021 to 31 December 2021)

SL. No	Name of consultant	Unit	Total patients	Total expired	Total discharge	Total DORB	Total transfer out
1	Prof. Dr Quazi Deen Mohammad	Red	16	03	02	0	11
2	Prof. Dr Badrul Alam	Blue	16	02	02	0	11
3	Prof. Dr Azharul Haque	Yellow	30	04	08	02	16
4	Prof. Dr Maliha Hakim	Orange	18	03	04	02	13
5	Prof. Dr Sharif Uddin Khan	Pink	13	03	03	0	07
6	Prof. Dr Mohibur Rahman	White	35	11	03	0	21
7	Asso Prof. Dr Poritosh Kumar Sarker	Green	40	13	02	02	23
8	Asso Prof. Narayan Chandra Shaha	Pedi NM	12	0	0	0	12

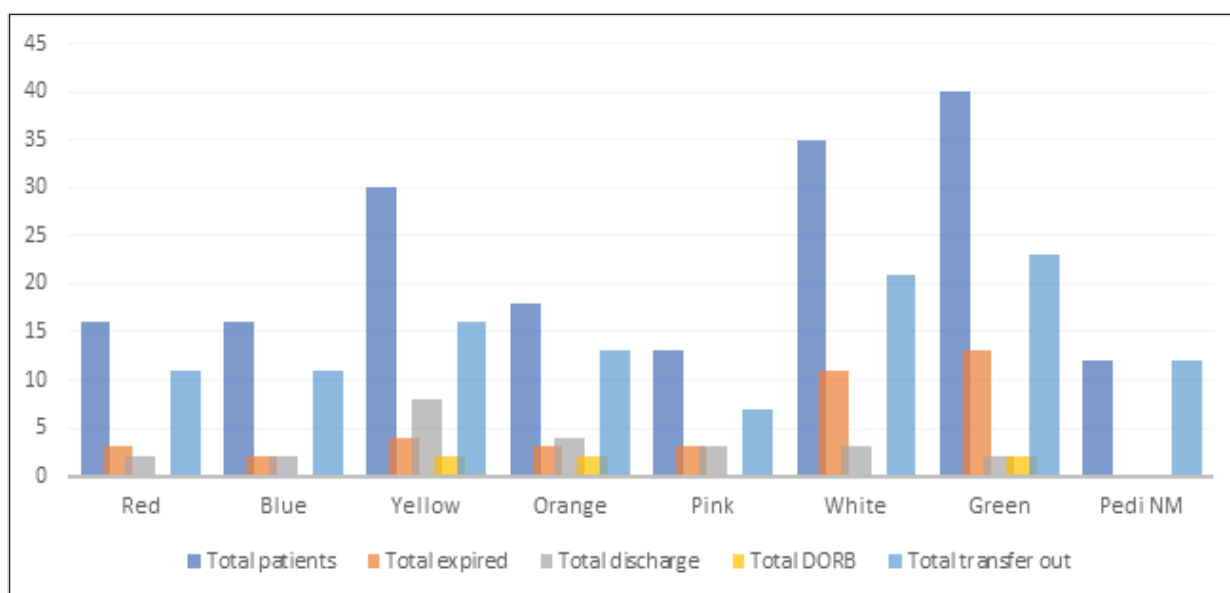


Figure V: HDU Patients Profiles of Neuromedicine

Critical Care Medicine

Table 7: Grand Total HDU of Neuromedicine
(From 01 January 2021 to 31 December 2021)

SL. No	Title	Grand Total
1	Total patients	182
2	Total admission- E/R	03
3	Transfer in	179
4	Transfer out	114
5	Total death	19
6	DORB	06
7	Total discharge	43

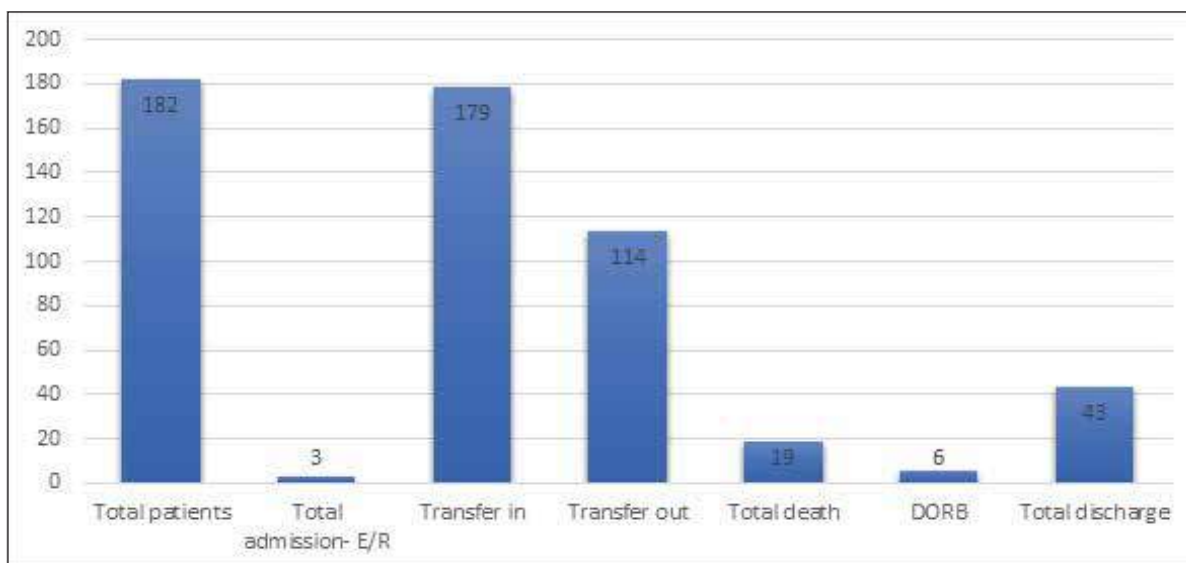


Figure VI: Grand Total HDU of Neuromedicine

Critical Care Medicine

Table 8: HDU Patients Profiles of Neurosurgery
(01 January 2021 to 31 December 2021)

SL. No	Name of consultant	Unit	Total patients	Total expired	Total discharge	Total DORB	Total transfer out
1	Prof. Dr SK. Sader Hossain	Green	09	04	0	0	05
2	Asso Prof. Dr.Md. Joinul Islam	Pink	01	0	0	0	01
3	Prof. Dr Mirza Hafizur Rahman	Yellow	05	03	0	0	02
4	Asso Prof. Dr Moklasur Rahman	Blue	09	05	01	0	03
5	Prof. Dr. Md. Zahed Hossain	Neurotrauma-1	20	07	02	0	09
6	Asso Prof. Dr Abdus Salam	Neurotrauma-2	11	04	02	01	04
7	Prof. Dr Md Ekramullah	Pedi NS	01	02	0	0	01

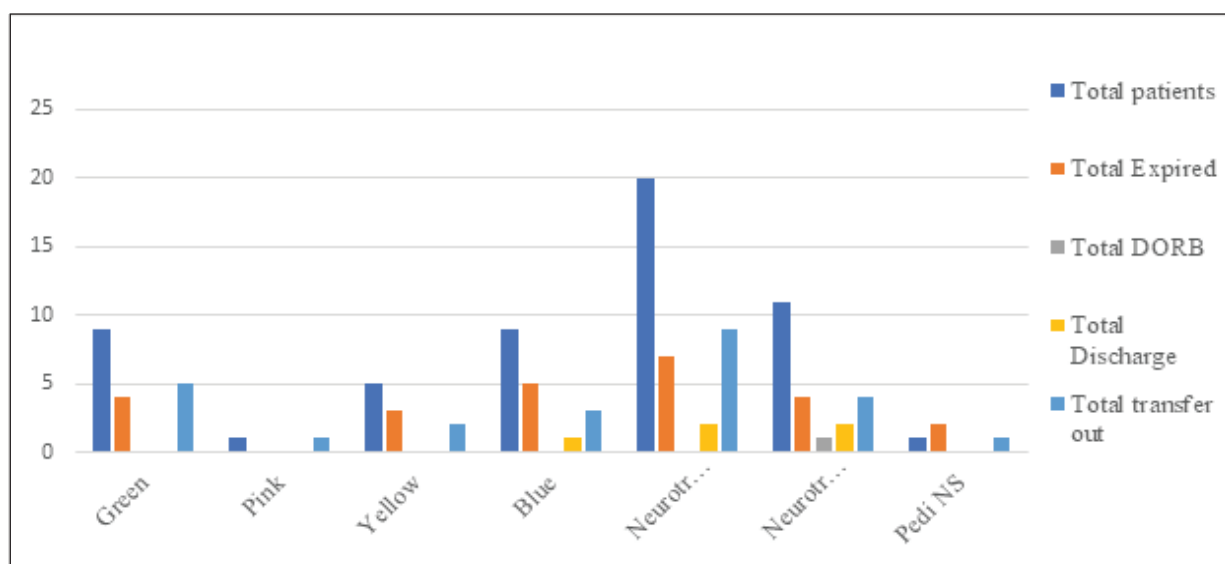


Figure VII: HDU Patients Profiles of Neurosurgery

Critical Care Medicine

Table 9: Grand Total HDU of Neurosurgery (From 01 January 2021 to 31 December 2021)

SL. No	Title	Grand Total
1	Total patients	56
2	Total admission- E/R	01
3	Transfer in	56
4	Transfer out	25
5	Total death	25
6	DORB	01
7	Total discharge	05

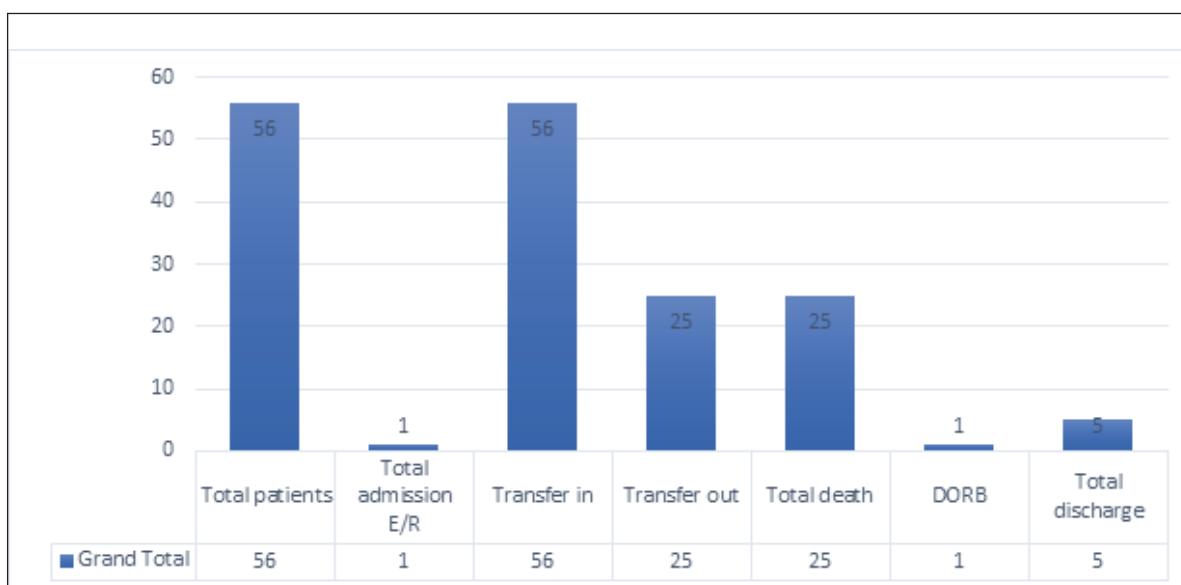


Figure VIII: Grand Total HDU of Neurosurgery

Critical Care Medicine

Providing services:

1. Management of critically ill patients
2. Counseling of Patients attendant about recent status and prognosis of patients
3. Plasmapheresis by portable ventilator support
4. Consultancy for referral patients
5. Physiotherapy – limbs and chest
6. Bed sided ABG analysis
7. Portable CXR, ECG
8. Support by portable ventilator and ICU team during CT and MRI
9. Attending in any emergency situations in hospitalized patients

Bed sided interventions:

1. Tracheostomy (both percutaneous and conventional)
2. Chest drain
3. Peritoneal dialysis
4. Femoral catheter for plasmapheresis
5. Central venous catheter
6. Endotracheal intubation
7. Lumbar puncture
8. Suprapubic cystostomy

Academic activities:

- a. Monthly CME programme
- b. Monthly meeting about infection control
- c. Yearly CPR programme
- d. Monthly Departmental presentation
- e. Regular bed sided case discussions
- f. Regular counseling about patient's condition.
- g. Regular teaching of ICU staffs and HMO
- h. Helping research in collaboration with ICDDR'B and CTU.

Critical Care Medicine

Instruments are available in ICU

- a. Total ICU bed -12
- b. Mechanical ventilator 19 –functioning-12, non-functioning-07
- c. Portable M/V-01
- d. Defibrillator-01
- e. Cardiac monitor- functioning-12 Nonfunctioning 0
- f. Central monitor-01
- g. Portable suction mahchine-03 functioning 02, nonfunctioning 01
- h. Wall suction machine-functioning-12, non-founctioning-0
- i. Syringe pump-20 (functioning)
- j. Infusion pump- 20 (nonfunctioning)
- k. Wheel chair-02, functioning 01, nonfunctioning 01
- l. Pulse oximeter -functioning-12, non-founctioning-03
- m. Portable pulse oximeter – 01
- n. ECG machine 01
- o. Portable monitor 01
- p. ABG machine 02, functioning 01, nonfunctioning 01
- q. Spot light 01
- r. View box 01
- s. Nebulizer machine 01
- t. Computer 02
- u. Printer 01

Instruments are available in HDU

- a. Total ICU bed -09
- b. ventilator –functioning-09 non-founctioning-02
- c. Defibrillator-0
- d. Cardiac monitor- functioning-08
- e. Central monitor-0
- f. Portable suction mahchine-02
- g. Wall suction machine-functioning-08, nonfunctioning - 01
- h. Syringe pump-02
- i. Infusion pump-02 (N)
- j. (N) on functioning
- k. wheel chair-01
- l. Pulse oximeter (portable)-01

Critical Care Medicine

Instruments deficit:

1. Bed sided USG and Echocardiography machine
2. Bronchoscopy machine
3. BiPAP Machine- 2 for HDU, 4 for ICU
4. Intermittent pneumatic compression devices
5. Central monitor for HDU

Limitations:

1. Separate rooms for ICU consultants
2. Isolation room for MRSA and other MDR infected patient
3. Bed sided Hemodialysis facility
4. Separate close space for ICU & HDU patient's attendant
5. Class room for ICU

Recommendations:

1. Permanent medical officer should be appointed in ICU
2. Separate post of doctors should be created for HDU
3. More ward boy & Aya are needed for ICU and HDU
4. A Permanent biomedical engineer should be appointed for ICU and HDU
5. Regular critical care training facility may be arranged for doctors and nurses.

Department of Neurosurgery OPD Patient Admission



Table 1: List of the Faculties

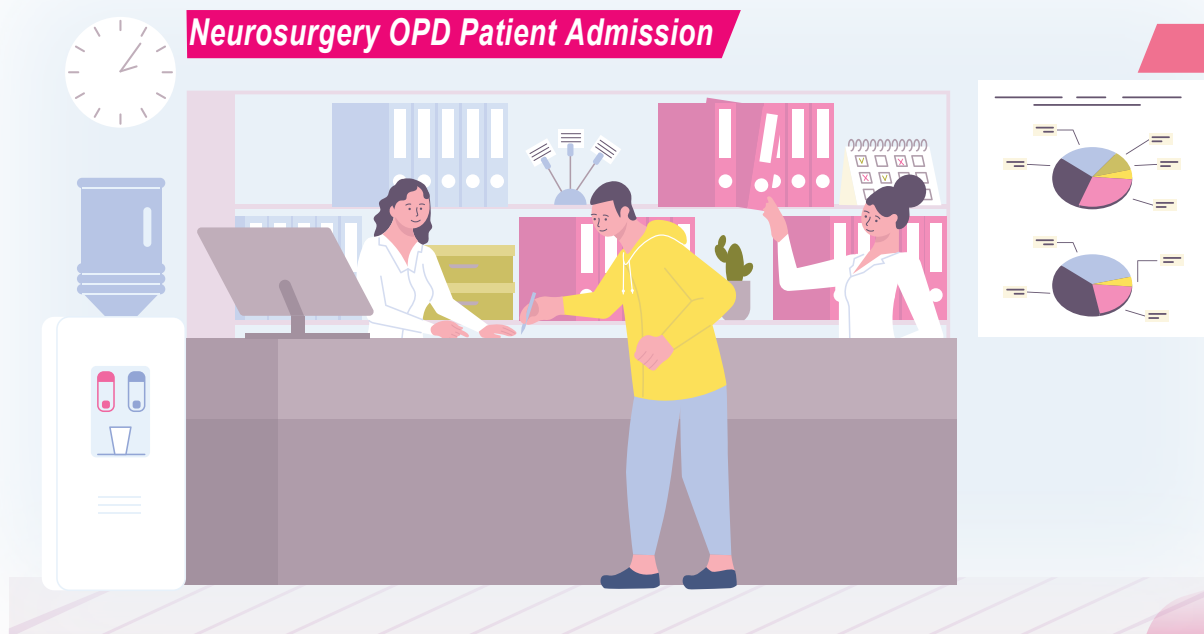
SL. No	Name	Degree	Designation
1	Dr. Monsur Ahmed	MBBS, MS (Neurosurgery)	Assistant Professor
2	Dr. Ruhul Moktadir	MBBS. MS (Neurosurgery)	Resident Surgeon
3	Dr. Hasan Mahbub	MBBS. MS (Neurosurgery)	Registrar
4	Dr. Tahrima Showkat	MBBS. MPH	Medical Officer
5	Dr. Md. Abul Farah Jewel	MBBS. FCPS (II)	Medical Officer
6	Dr. Md. Ishtiaq-Uz-Zaman Chowdhury	MBBS	Medical Officer



Neurosurgery OPD Patient Admission

Table 2: Total Summary of OPD Patient admission
(From 01 January 2021 to 31 December 2021)

MONTH	OPD PATIENT	ADMISSION			TRANSFER IN
		MALE	FEMALE	CHILD	
January	5430	109	76	29	9
February	5203	97	73	25	10
March	5637	118	94	51	9
April	5710	110	84	24	13
May	6320	112	76	33	6
June	6134	102	88	42	11
July	7632	124	111	28	9
August	6905	125	98	40	14
September	7210	128	105	37	14
October	6535	144	116	28	11
November	6544	130	104	24	18
December	6325	114	94	41	7
TOTAL	75585	1413	1119	402	131



Interim Analysis on Stroke Unit



Table 1: List of the Faculty's

SL. No	Name	Degree	Designation
1	Prof. Dr. M S Jahirul Haque Chowdhury	MD (Neurology)	Professor
2	Dr. Mohammad Bazlur Rashid	MD (Neurology)	Junior Consultant
3	Dr. Subir Chandra Das	FCPS (Medicine)	Junior Consultant
4	Dr. Golam Mostofa	MD (Neurology)	Registrar
5	Dr. Md. Ashrafuzzaman	MD (Neurology)	Assistant Registrar
6	Dr. Shahin Mahmud	MD (Rheumatology)	Assistant Registrar
7	Dr. Md. Moniruzzaman	FCPS (Medicine)	Medical Officer
8	Dr. A.K.M Mahmudul Haque	D Card	Junior Consultant
9	Dr. Md. Iqbal Hasan	MD (Nephrology)	Medical Officer
10	Dr. Md. Ashaduzzaman	MD (Neurology)	Assistant Registrar
11	Dr. Mohammad Basiruzzaman	MD (Neurology)	Medical Officer



Interim Analysis on Stroke Unit

Table 1: List of the Faculty's

SL. No	Name	Degree	Designation
12	Dr. Md. Tareq Esteak	MD (Phase-B)	Medical Officer
13	Dr. S.K Jakaria Been Sayeed	FCPS (Medicine) MRCP	Medical Officer
14	Dr. Md. Mazharul Islam	MD (Neurology)	Medical Officer
15	Dr. Zebunnessa Nasrin Alam	MBBS	Medical Officer
16	Dr. Sumon Das	MBBS	Medical Officer
17	Dr. Sumaiya Juarder	MBBS	Medical Officer
18	Dr. Mousumi	MBBS	Medical Officer
19	Dr. Sunzida	MBBS	Medical Officer
20	Dr. Towheda Akther Tanu	MBBS	Medical Officer
21	Dr. Md. Nazrul Islam Shohag	MBBS	Medical Officer
22	Dr. Md. Mezbah ul Haque	MBBS	Medical Officer



Figure I: Stroke unit round by Prof. Dr. Quazi Deen Mohammad, Prof. Dr. Badrul Alam and Prof. Dr. M S Jahirul Haque Chowdhury

Interim Analysis on Stroke Unit

- Starts its official journey on 06/01/2020
- Stated running on 17/09/2019 with 7 male and 7 female beds unofficially
- This dream unit now consists of 100 beds among 50 for male and 50 for female patients

Stroke Unit takes of

- Patients with Hyper Acute ischemic stroke
- Acute Stroke patients who has GCS < 10
- Acute SAH
- Acute stroke with emergencies (convulsion/uncontrolled HTN/renal dysfunction/ Respiratory failure) who need HDU care
- As we have passed 2 years and achieved milestone of doing more than 120 IV Thrombolysis in hyperacute ischemic stroke patients
- Treated more than 10000 patients in this unit



Figure II: Stroke Unit (Partial) Doctors & Nurses Headed by Prof. Dr. M S Jahirul Haque Chowdhury

Interim Analysis on Stroke Unit

Table 2: Service Wise Summary (From 01 January 2021 to 31 December 2021)

Stroke Unit (Male)

Month	Admission	Death	Discharge	Ischemic Stroke	ICH	SAH	CVST	Others
January	430	161	269	66	156	25	19	50
February	357	141	226	43	167	26	18	48
March	410	155	255	50	176	27	19	54
April	307	124	180	41	126	30	20	35
May	301	127	139	39	109	28	24	57
June	286	100	140	35	125	25	15	43
July	315	140	175	36	123	27	13	47
August	350	143	207	38	110	28	16	48
September	307	121	186	39	116	25	19	47
October	305	158	147	37	137	24	20	49
November	343	181	162	48	152	35	19	61
December	342	190	152	52	160	40	10	35
Total	4053	1740	2238	524	1994	365	212	414

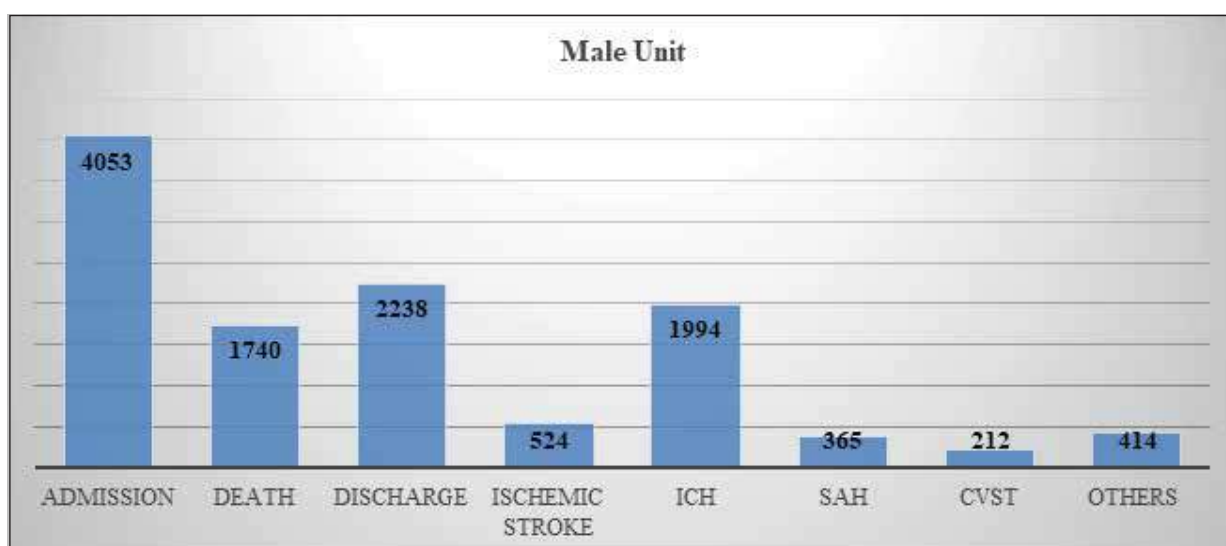


Figure III: Service Wise Summary Stroke Unit (Male)

Interim Analysis on Stroke Unit

Table 3: Service Wise Summary (From 01 January 2021 to 31 December 2021)

Stroke Unit (Female)

Month	Admission	Death	Discharge	Ischemic Stroke	ICH	SAH	CVST	Others
January	317	112	205	60	140	59	20	38
February	266	94	172	48	117	45	14	30
March	289	95	194	53	135	51	16	29
April	204	73	131	44	97	26	13	25
May	215	67	148	62	102	45	22	15
June	207	55	152	41	95	28	10	10
July	368	70	286	41	77	47	10	32
August	341	87	254	55	114	60	18	22
September	281	89	191	45	118	42	23	25
October	278	92	195	50	113	69	16	35
November	299	98	201	50	112	68	15	40
December	244	87	157	42	89	46	12	25
Total	3309	1019	2286	550	1309	586	189	326

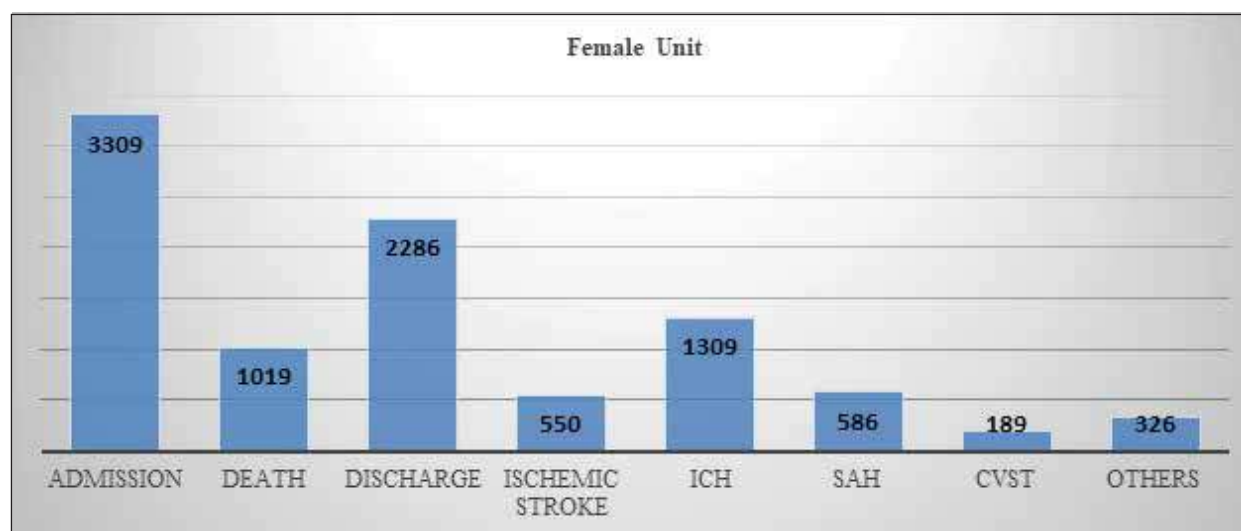


Figure IV: Service Wise Summary Stroke Unit (Female)

Interim Analysis on Stroke Unit

Table 4: Total Summary of Admission, Death & Discharge
(From 01 January 2021 to 31 December 2021)

Gender	Admission	Death	Discharge
Male	4053	1740	2238
Female	3309	1019	2286
Total	7362	2759	4524

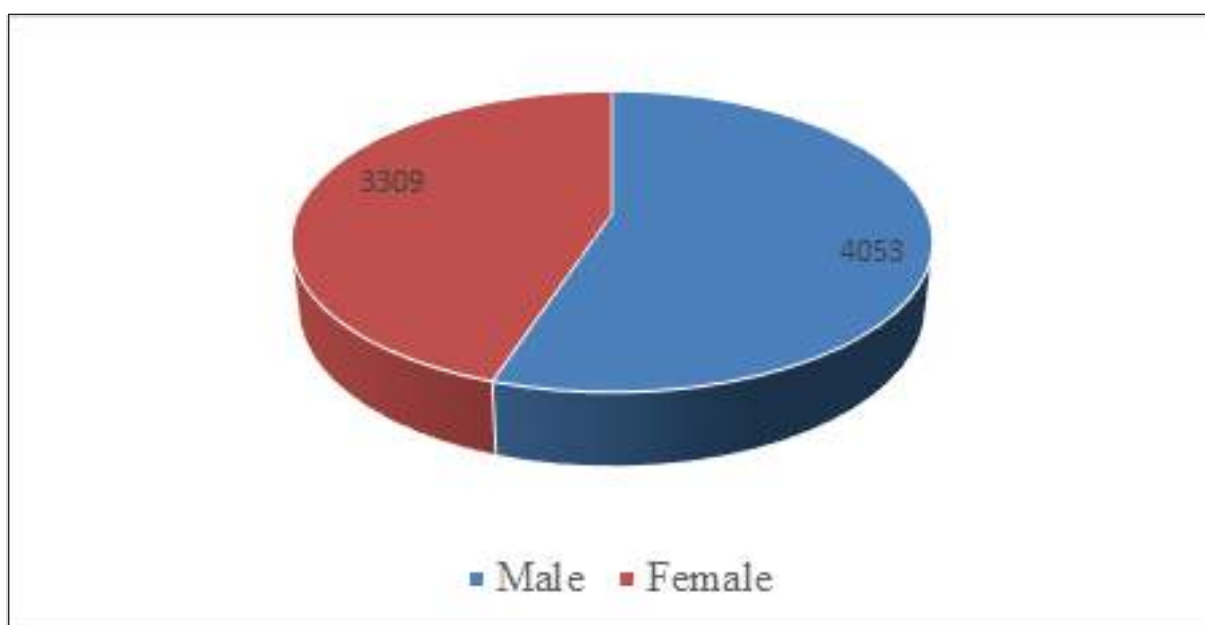


Figure V: Total Admission of Male & Female

Interim Analysis on Stroke Unit

on Stroke Unit

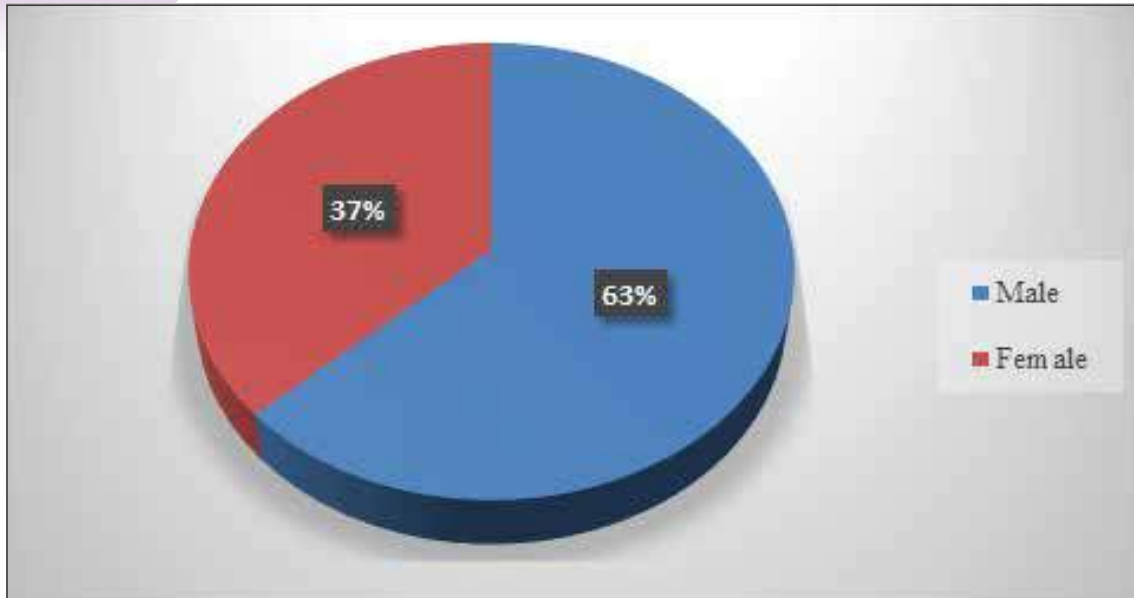


Figure VI: Total Death of Male & Female

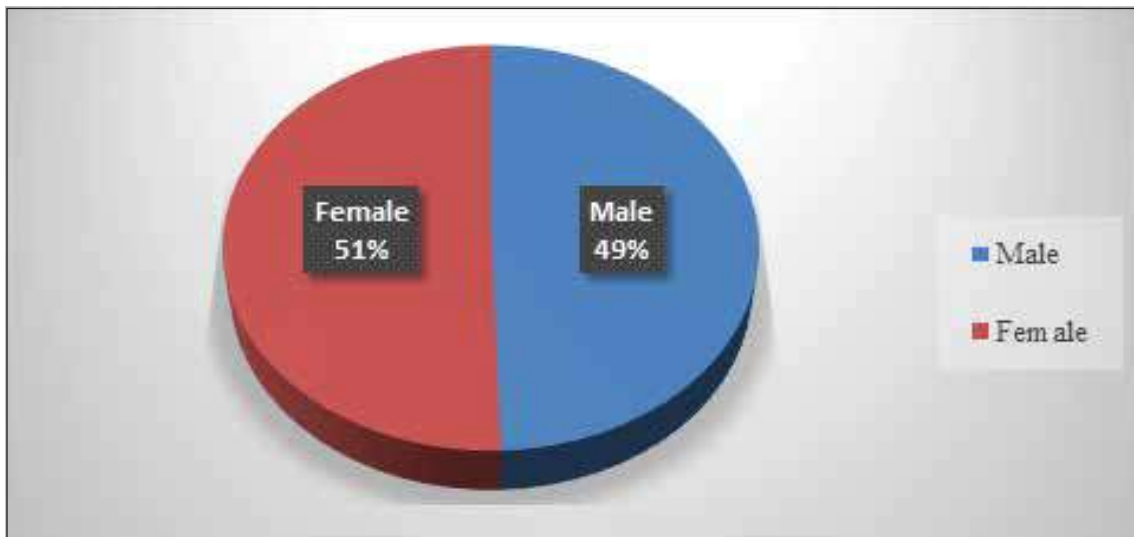


Figure VII: Total Discharge of Male & Female

Interim Analysis on Stroke Unit

IV THROMBOLYSIS (2021)

Total= 61

Having facility of

- 24 hours IV thrombolysis
- HDU care
- Availability of ventilators
- Central suction and Oxygen delivery system
- Dedicated nursing and support staffs
- Centrally air condition environment
- Bed side monitor 10 each side
- Portable monitor
- Syringe Pump+ infusion pump

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Table 1: IPD Surgery (01 January 2021 to 31 December 2021)
Surgery

Month	Major Surgery	Minor Surgery
January	190	98
February	201	100
March	255	132
April	321	137
May	350	150
June	385	166
July	390	200
August	410	220
September	421	253
October	0	0
November	0	0
December	135	326
Total	3058	1782



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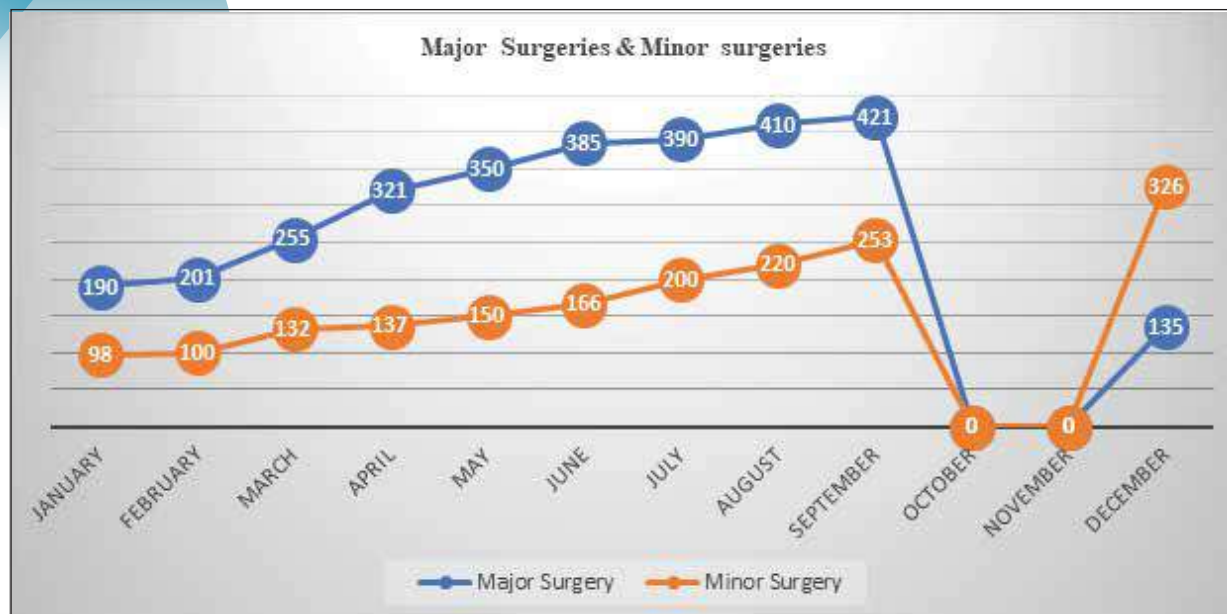


Figure I: Trend of major Surgeries & minor surgeries

Table 2: Number of OPD Visits (01 January 2021 to 31 December 2021)

Month	Age < 5 Year		Age >= 5 Years		Total
	Male	Female	Male	Female	
January	549	401	11059	10186	22195
February	502	329	10175	9060	20066
March	760	457	11645	11369	24231
April	324	202	5425	4860	10811
May	345	225	6226	5431	12227
June	571	369	10009	9156	20105
July	227	140	4596	4550	9513
August	621	395	10821	10889	22726
September	712	529	14108	13056	28405
October	644	390	11795	10736	23565
November	702	445	11808	10961	23916
December	605	312	10556	9258	20731
Total	6562	4194	118223	109512	238491

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OPD Visits

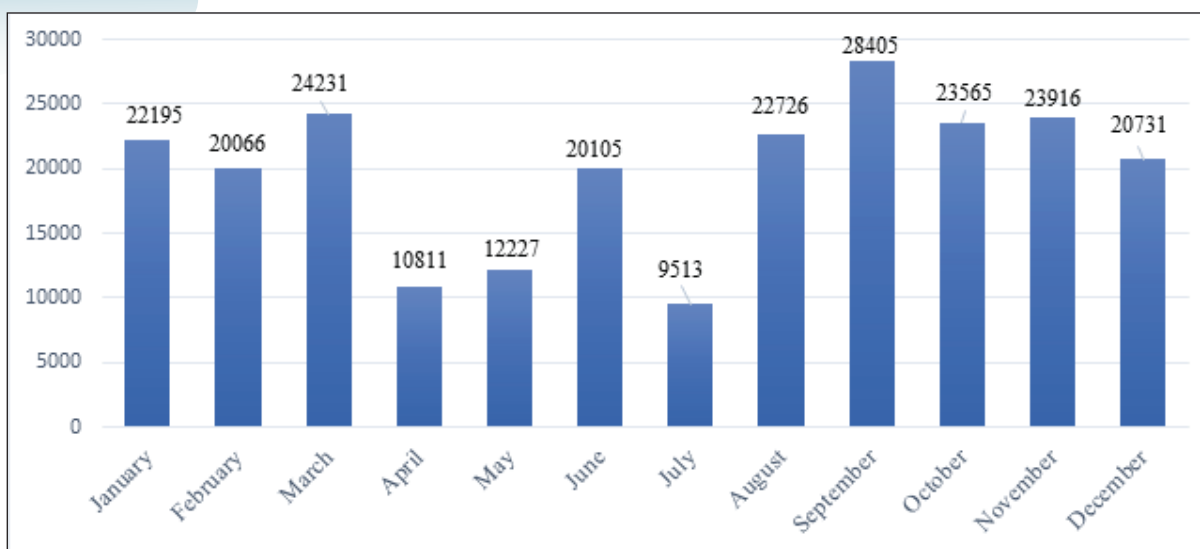


Figure II: Total Summary of OPD Visits

Table 3: Total Summary of Emergency Visits (01 January 2021 to 31 December 2021)

Month	Age < 5 Year		Age >= 5 Years		Total
	Male	Female	Male	Female	
January	97	70	1896	2115	4178
February	143	116	2800	3222	6281
March	151	100	2709	2092	5052
April	61	39	1457	789	2346
May	122	77	2403	1373	3975
June	131	116	2510	2149	4906
July	103	68	2729	1687	4587
August	108	79	2363	1858	4408
September	179	115	2753	2834	5881
October	491	315	7386	7051	15243
November	113	83	2338	1503	4037
December	139	100	2456	2586	5281
Total	1838	1278	33800	29259	66175

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Emergency Visits

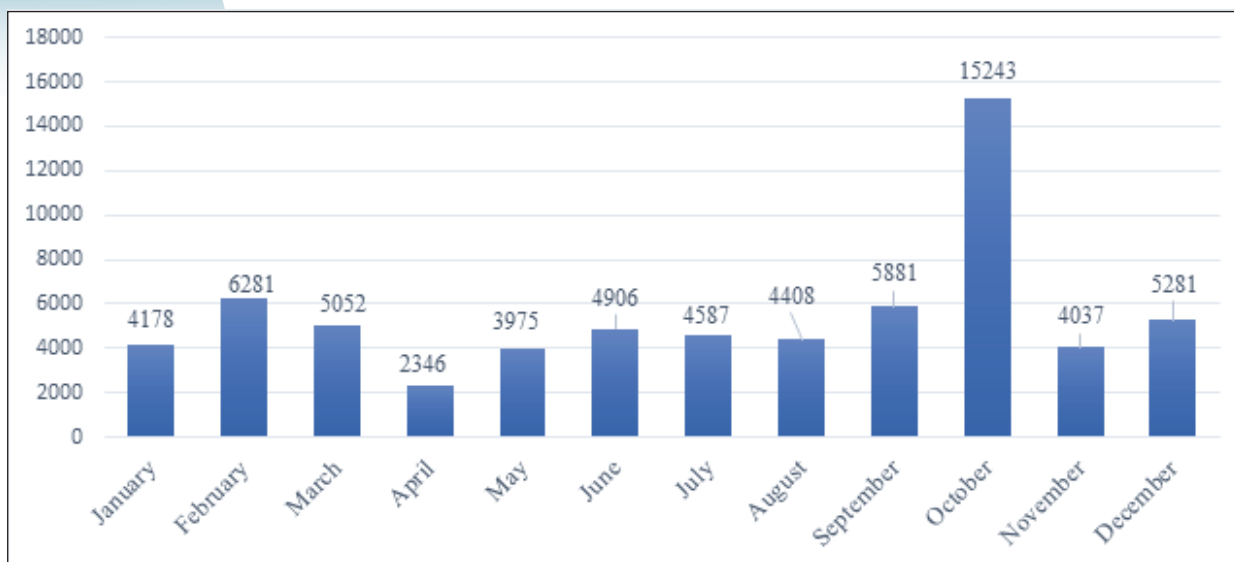


Figure III: Total Summary of Emergency Visits

Table 4: Number of OPD Admission (01 January 2021 to 31 December 2021)

Month	Age < 5 Year		Age >= 5 Years		Total
	Male	Female	Male	Female	
January	483	293	9693	8407	18876
February	475	288	10275	7970	19008
March	651	411	11161	8568	20791
April	383	214	7379	5472	13448
May	356	261	8212	5981	14810
June	38	33	784	501	1356
July	36	17	869	612	1534
August	38	28	894	610	1570
September	49	28	865	565	1507
October	41	18	852	572	1483
November	35	28	837	576	1476
December	45	17	846	639	1547
Total	2630	1636	52667	40473	97406

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Admission

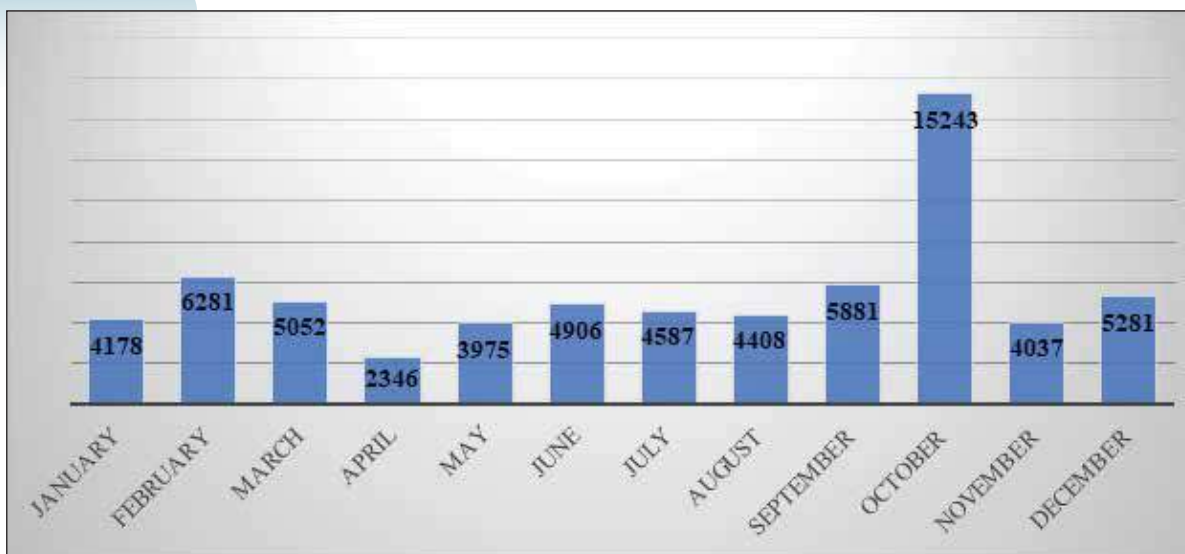


Figure IV: Total Summary of OPD Admission

Table 5: Total Summary of Death (01 January 2021 to 31 December 2021)

Month	Age < 5 Year		Age >= 5 Years		Total
	Male	Female	Male	Female	
January	2	4	235	191	432
February	2	2	241	130	375
March	2	1	235	125	363
April	1	1	178	146	326
May	1	1	177	108	287
June	0	0	191	107	298
July	0	0	214	111	325
August	0	5	195	115	315
September	4	4	187	116	311
October	0	1	216	122	339
November	2	0	255	166	423
December	0	1	244	142	387
Total	14	20	2568	1579	4181

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Death

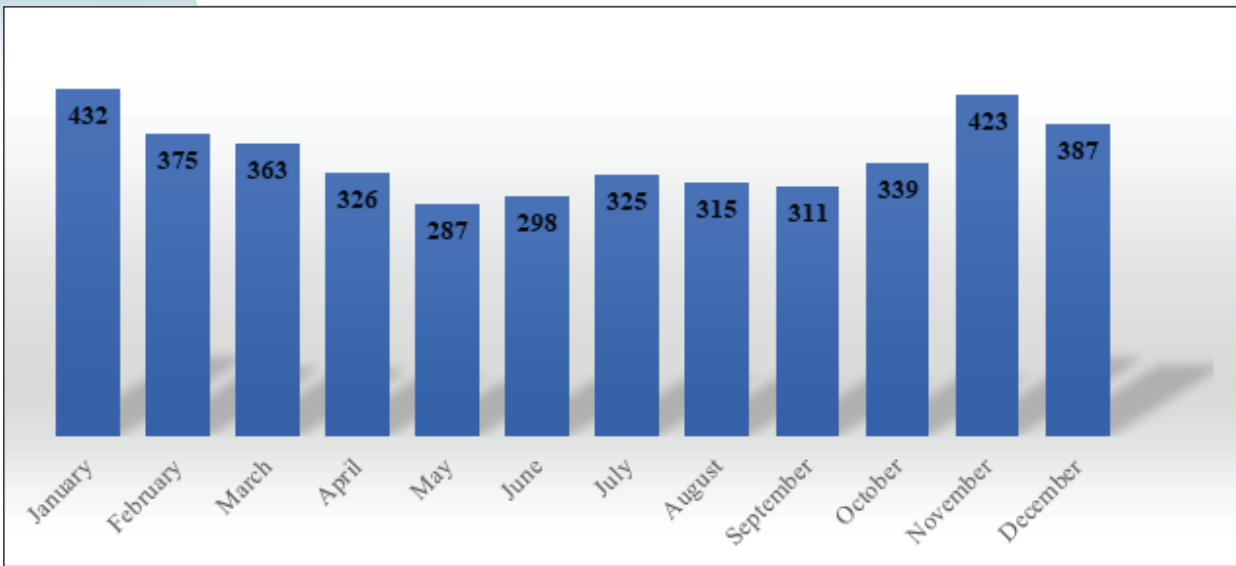
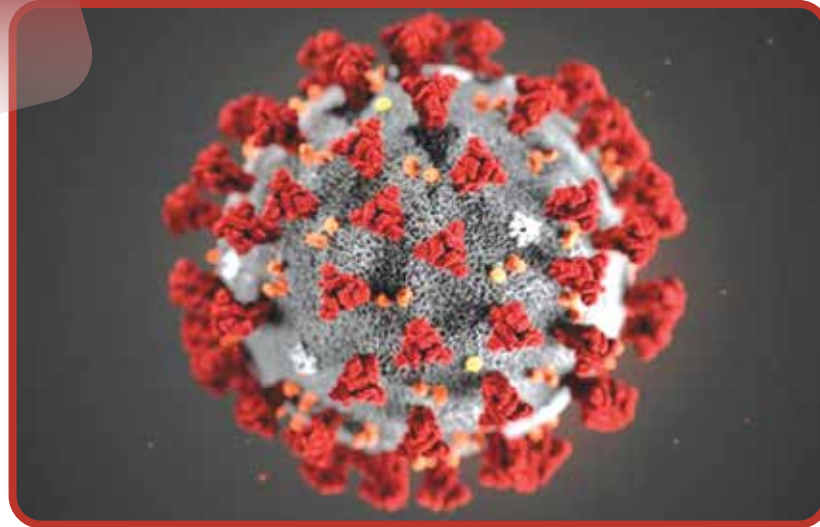


Figure V: Number of Death



National Institute of Neurosciences and Hospital

Corona Virus Diseases (Covid-19)



Date of Sample Collection Started: 04 April 2021

- List of Covid-19 Sample Collection:

SL. No	Name	Designation
1	Dr. A.F.M Arshedi Sattar	Associate Professor
2	Dr. Abdullah Yousuf	Associate Professor
3	Dr.Nasrin Jahan	Research Assistant
4	Tania Begum	Medical Technologist
5	Sanzida Shuchi	Medical Technologist
6	Shubkangkar Das	Medical Technologist
7	Md. Selim Reza	Medical Technologist
8	Mithu Chandra Sarker	Medical Technologist
9	Shahanag Parven	Lab Technician
10	Nasrin Akter	Technician



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Date of Sample Collection Started: 04 April 2021

- List of Covid-19 Sample Collection:

SL. No	Name	Designation
11	Sirajul Islam	Lab Technician
12	Asadul Islam	Lab Technician
13	Ripon Chandra Shil	Lab Technician
14	Siddik Miah	MLSS
15	Ashiki Alahi	MLSS
16	Delowar Hossain	Ward boy
17	Shahadat Hossain	Ward boy
18	Aditto Raihan Rabby	Ward boy
19	Al Rayhan Mondol	Ward boy
20	Sadek	Ward boy
21	Sohel	Ward boy
22	Delowar	Ward boy
23	Sultana Khan Anney	Aya
24	Nasima Akter	Aya
25	Bibi Morium Lipi	Aya
26	Chamely Begum	Aya
27	Shahida Akter	Aya
28	Nurun Nahar Suma	Aya

Table 2: Covid-19 Fighter of Lab Science (Department of Biochemistry)

SL. No	Name	Designation
1	Golam Mostofa	Medical Technologist
2	Md. Saifuddin	Medical Technologist
3	Md. Abdul Manik	Lab Technician

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Table 3: Covid-19 Fighter of Lab Science (Department of Neuropathology)

SL. No	Name	Designation
1	Prof. Dr. Md Nowfel Islam	Professor
2	Md. Alamgir Hossain	Medical Technologist
3	Imran Hossain	Ward boy

**Table 4: Covid-19 Fighter of Lab Science
(Department of Transfusion Medicine)**

SL. No	Name	Designation
1	Abed Hasan	Medical Technologist
2	Mst. Sharmin	Technician

Table 5: Covid-19 Fighter of Volunteer

SL. No	Name	Designation
1	Mohammad Imran	Volunteer
2	Momena	Volunteer
3	Md.Waliullah	Volunteer
4	Md.Shamim Reza	Volunteer
5	Md.Nazim Uddin	Volunteer
6	Md. Shajahan Saju	Volunteer

Table 6: Covid-19 Fighter of BRAC

SL. No	Name	Designation
1	Md. Samiul Bari	BRAC
2	Md. Anwar Hossain	BRAC

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Figure I: Covid-19 Sample Collection Preparation (NINS Team)



Figure II: Covid-19 Sample Collection Team

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Figure III: Covid-19 Nasopharyngeal Sample collection method



Figure IV: Covid-19 After Sample collection and sample collection method by NINS Team

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Corona Virus Diseases (Covid-19)

Total RT-PCR Test

(From 04 April 2021 to 31 December 2021)

SL. No	Month	Total Collection	IPD Negative	OPD Negative	Positive	Male Negative	Female Negative
1	January	865	685	141	39	473	353
2	February	661	560	88	13	374	274
3	March	1100	673	282	145	561	394
4	April	1521	747	567	207	717	597
5	May	985	764	186	35	578	372
6	June	1359	953	283	123	788	448
7	July	1973	1162	746	335	941	697
8	August	1768	1174	462	132	936	700
9	September	1510	1090	329	91	812	607
10	October	1128	956	136	36	633	459
11	November	1024	1016	85	23	596	505
12	December	1123	1031	73	19	626	478
Total		15017	10811	3378	1198	8035	5884

Total Collection- 15017

Total Positive- 1198

Percent's- 7.97%

IPD Positive Male-307

IPD Positive Female-286

OPD Positive Male-349

OPD Positive Female-256

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Total RT-PCR Test

Covid-19 Total Summary 04 April 2021 to 31 December 2021

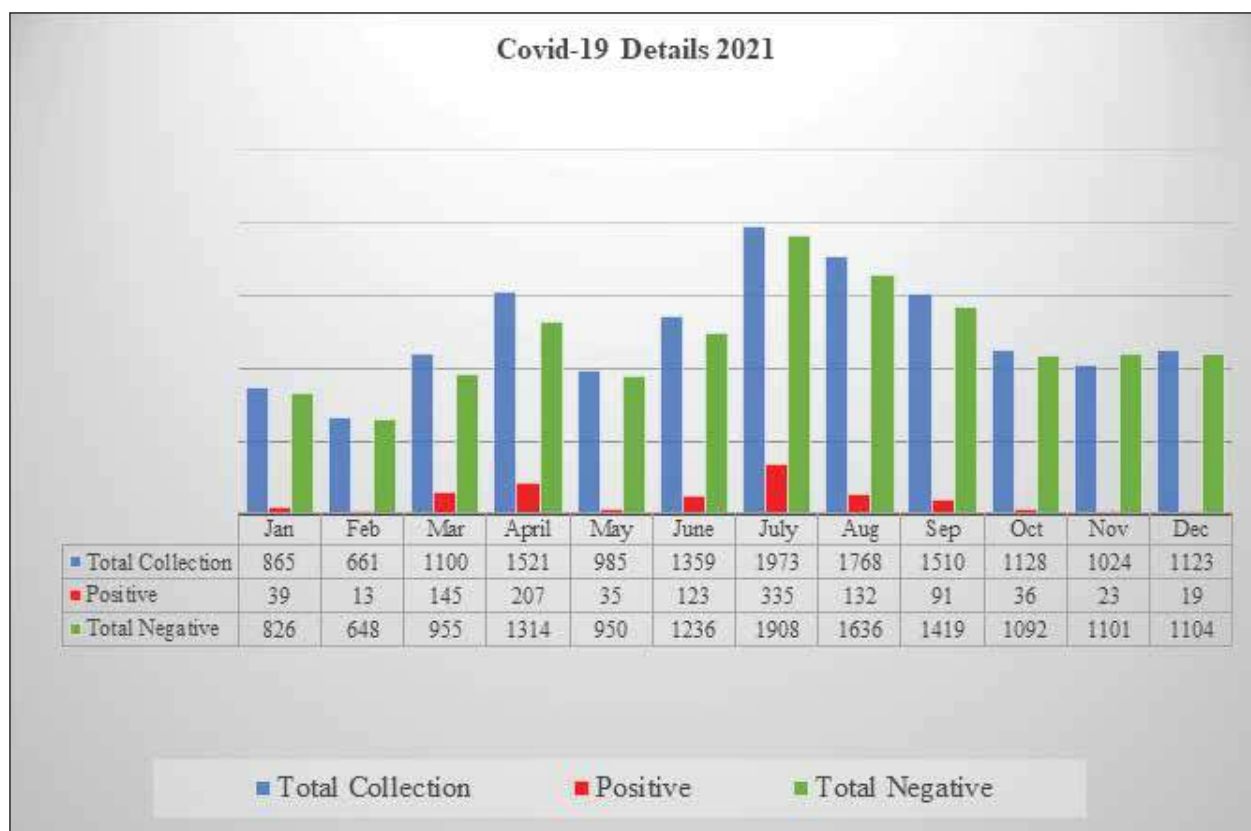


Figure V: Total RT-PCR Test

RT-PCR

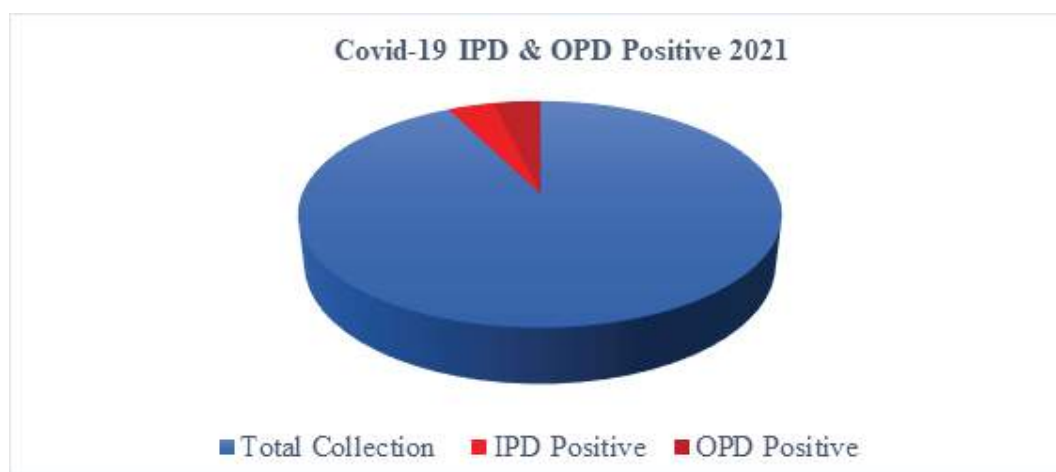


Figure VI: Covid-19 IPD & OPD Positive 2021

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RT-PCR

Covid-19 IPD & OPD Positive 2021

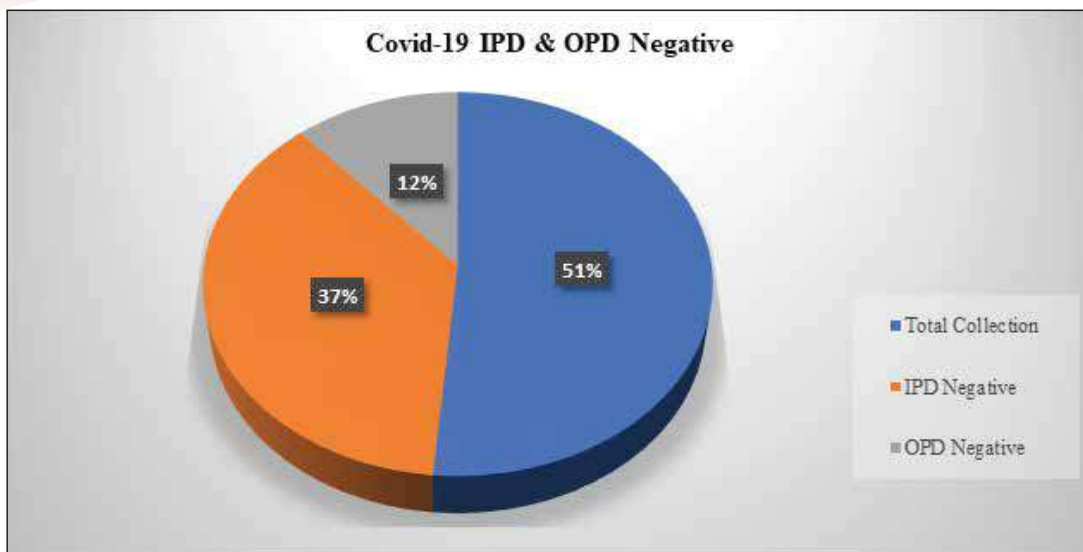


Figure VII: Covid-19 IPD & OPD Negative 2021

RT-PCR

Covid-19 IPD & OPD Negative 2021

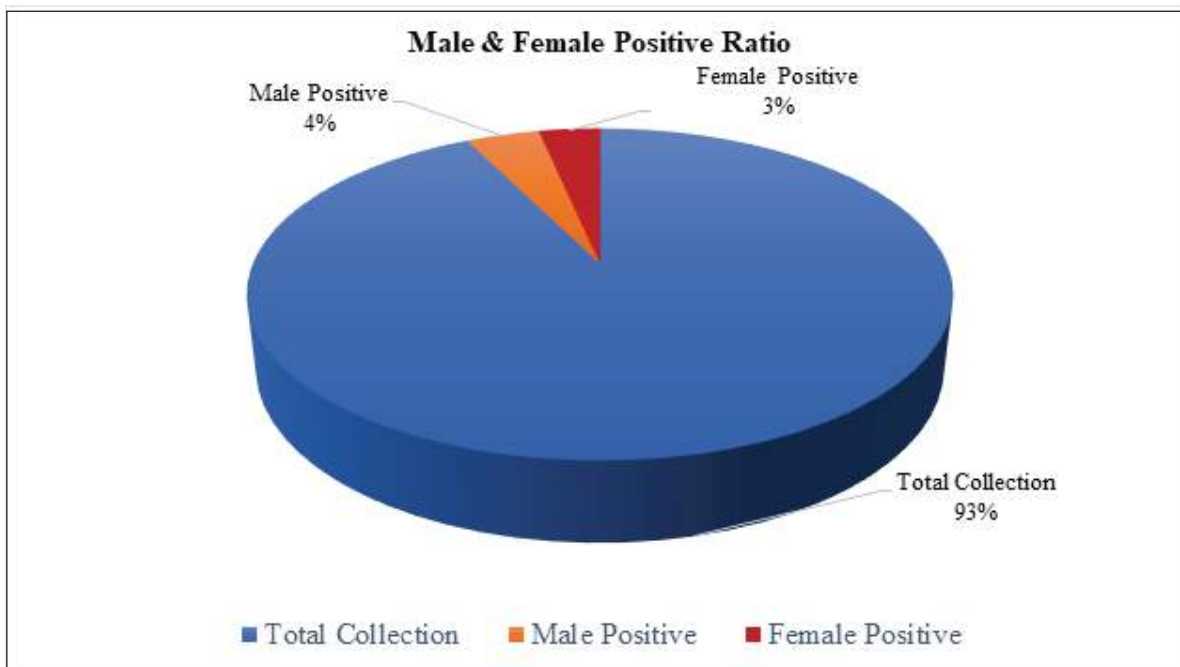


Figure VIII: Covid-19 Male & Female Positive Ratio 2021

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Rapid Antigen Test (RAT) 2021

Total Collection 4988

Total Positive-407

Total Negative-4581

Rapid Antigen Test Total Summary 01 March 2021 to 31 December 2021

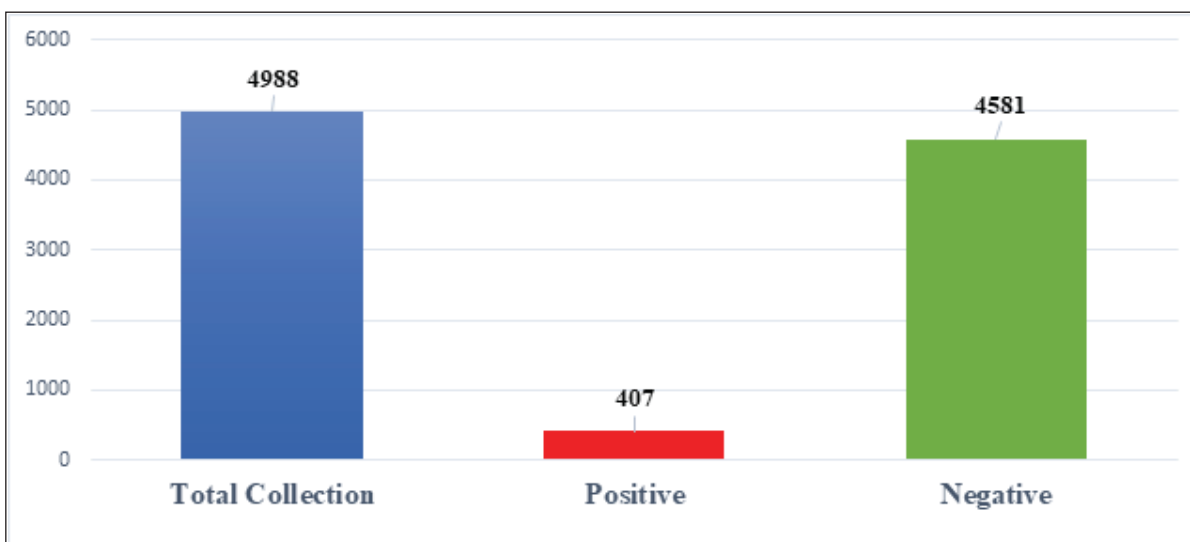


Figure IX: Rapid Antigen Test Positive & Negative Ratio 2021

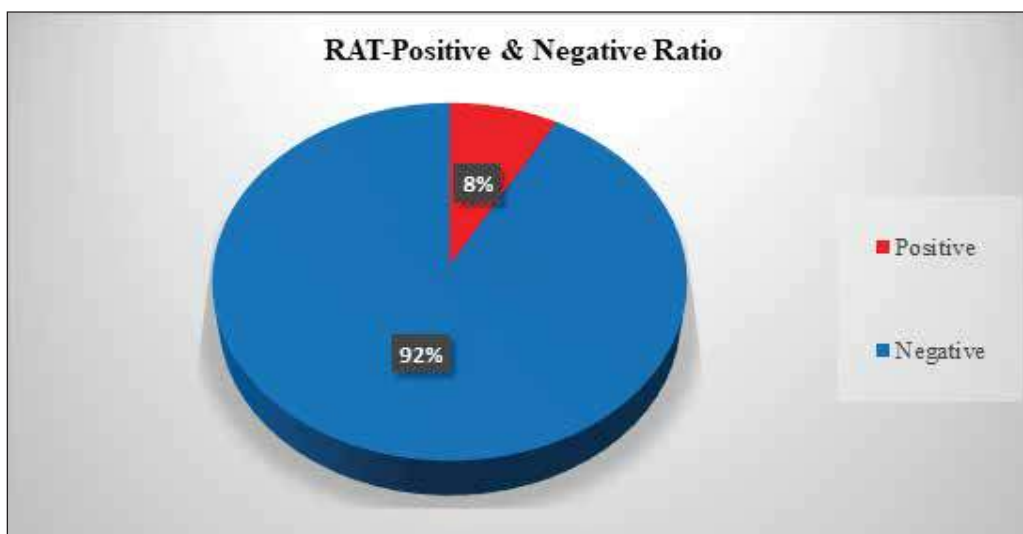


Figure X: RAT-Positive & Negative Ratio

National Institute of Neurosciences and Hospital

Microbiology Department Staff List (Covid-19 Positive)

SL. No	Name	Age	Gender	Covid-19 Positive Date
1	Dr. Md. Abdullah Yousuf	47	Male	20.01.2022
2	Tania Begum	27	Female	07.03.2022
3	Sanzida Shuchi	26	Female	23.03.2021
4	Md. Selim Reza	28	Male	17.08.2021
5	Shahanag Parven	27	Female	21.01.2021
6	Sirajul Islam	31	Male	30.09.2020
7	Asadul Islam	30	Male	21.06.2020
8	Ripon Chandra Shil	27	Male	04.05.2020
9	Siddik Miah	26	Male	12.01.2022
10	Ashiki Alahi	28	Male	22.06.2021
11	Sultana Khan Anney	25	Female	24.06.2020
12	Delowar Hossain	25	Male	03.08.2020
13	Bibi Morium Lipi	21	Female	26.07.2020
14	Shahadat Hossain	28	Male	30.06.2020
15	Aditto Raihan Rabby	20	Male	21.06.2020
16	Al Rayhan Mondol	25	Male	31.01.2022
17	Sohel	35	Male	03.02.2022
18	Chamely Begum	30	Female	21.06.2020
19	Shahida Akter	26	Female	21.03.2021
20	Delowar-2	35	Male	19.01.2021

National Institute of Neurosciences and Hospital

COVID-19 Positive List (Doctors)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
1		Dr. Md. Shahjahan Chowdhury	-	-	-	-	-
2		Dr. Dewan Md. Karimul Islam	-	-	-	-	-
3		Dr. Jarin Haque	-	-	-	-	-
4	42382	Dr. Md. Mafuzur Rahman	43	Male	Doctor	1711076764	01.06.2020
5	42394	Dr. Zakia Sultana	35	Female	Doctor	1717545839	01.06.2020
6	42382	Dr. Md. Mafuzur Rahman	43	Male	Doctor	1711076764	01.06.2020
7	42394	Dr. Zakia Sultana	35	Female	Doctor	1717545839	01.06.2020
8	42596	Dr. Soumen Sarkar	31	Male	Doctor	1723748277	01.07.2020
9	43693	Dr. Tanvir Haider	41	Male	Doctor	1712288607	02.06.2020
10	39669	Dr. Md. Habibur Rahman	45	Male	Doctor	1715222261	03.07.2020
11	7927	Dr. Bashir Ahmed	36	Male	Doctor	1711472459	04.05.2020
12	7909	Dr. Saima Anwar	42	Female	Doctor	1712620449	04.05.2020
13	7910	Dr. Israt Alam Zerín	27	Female	Doctor	1756716555	04.05.2020
14	7914	Dr. Monsur Ahmed	44	Male	Doctor	1712740418	04.05.2020
15	7915	Dr. Md. Arif Reza	38	Male	Doctor	1711737167	04.05.2020
16	7916	Dr. Abdullah Alamgir	50	Male	Doctor	1819241029	04.05.2020
17	7924	Dr.sk Mahmud Hasan	31	Male	Doctor	1703991545	04.05.2020
18	7925	Dr. Kazi Ekramul Haque	38	Male	Doctor	1827558755	04.05.2020
19	7927	Dr. Basar Ahmed Khan	36	Male	Doctor	1711472459	04.05.2020
20	146408	Dr. Mohamad Enayet Hussain	46	Male	Doctor	1716215871	05.08.2020
21	144123	Dr. Md. Shafikul Islam Khan	38	Male	DOCTOR	1714403445	05.12.2020
22	14303	Dr. Ariful Islam	53	Male	Doctor	1819162853	13.05.2020
23	18809	Dr. Md. Samsul Haque	38	Male	Doctor	1914860640	17.05.2020
24	23299	Dr. Uzzal Kumar Mollík	39	Male	Doctor	1712715180	20.05.2020
25	27302	Dr. Hasan Imam	51	Male	Doctor	1711310613	23.05.2020
26	27304	Prof.dr. Maliha Hakim	54	Female	Doctor	1552312894	23.05.2020
27	32837	Dr. Shahadat Hasan	35	Male	Doctor	1915859805	28.05.2020
28	32895	Dr. Khan E Amir	32	Male	Doctor	1711015218	28.05.2020

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COVID-19 Positive List (Doctors)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
29	32900	Prof. Dr. M.S Jahirul Haque Chowdury	50	Male	Doctor	1819122458	28.05.2020
30	71368	Dr Kalim	49	Male	DOCTOR	1712764797	17.06.2020
31	84819	Dr. Sayed Iftekher Ahmed	35	Male	Doctor	1920056156	22.06.2020
32	99274	Dr. Naila Haque	53	Female	Doctor	1740947920	28.06.2020
33	101703	Dr. Kazi Nur Asfia	56	Female	Doctor	1553423767	29.06.2020
34	103586	Dr. Sara Alam	35	Female	Doctor	1714558800	30.06.2020
35	103590	Dr. Partha Biswas	30	Male	Doctor	1644086874	30.06.2020
36	9510	Dr.md.akther Hossain	48	Male	Doctor	1720848049	07.05.2020
37	C140789	Dr. A.F.M. Al Masum Khan	45	Male	DOCTOR	1711002101	07.10.2020
38	126973	Dr. Md. Zillur Rahman	38	Male	Doctor	1711452868	13.07.2020
39	53581	Dr. Tareq-ur-rahman	30	Male	Doctor	1721339708	08.06.2020
40	168788	Suipto Kumar Mukharjee	48	Male	DOCTOR	1711709096	26.08.2020
41	199358	Dr. Kaniz Fatema	36	Female	DOCTOR	1716324912	28.09.2020
42	15360	Dr. Md. Rafiul Hasan	30	Male	DOCTOR	1917635148	15.10.2020
43	020433077	Dr. Sayma Nahid Shanta	28	Female	DOCTOR	1769000888	18.10.2020
44	212751	Dr. Enayetul Islam	50	Male	Doctor	1711814342	20.10.2020
45	10727464	Dr. Rajib Nayan Chowdhury	49	Male	Doctor	1715176567	21.10.2020
46	219932	Dr. Sawpan Kumar Ray	31	Male	DOCTOR	1724229488	31.10.2020
47	61587	Dr. Abdul Momen	33	Male	Doctor	1916384579	11.06.2020
48	242067	Dr Mahea Marjan Khan	30	Female	DOCTOR	1777408610	24.11.2020
49	153113	Dr. Sabrina Islam	32	Female	DOCTOR	1719320455	12.08.2020
50	0432100	Dr. Anwar Israil	53	Male	DOCTOR	01714404321	12.11.2020

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COVID-19 Positive List (Nurse)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
1	105963	Kaniz Fatema	25	Female	SSN	01796642864	01.07.2020
2	01711008145 93	Gayotri Rani	51	Female	SSN	01711008145	02.12.2020
3	144780	Mridula Baroy	40	Female	SSN	01816365922	03.08.2020
4	7921	Binita Chakma	34	Female	SSN	01732931887	04.05.2020
5	NINS-10	Mahbuba Akter	31	Female	SSN	01752704214	30.04.2020
6	NINS-13	Bilkis Khatun	33	Female	SSN	01674990952	30.04.2020
7	NINS-16	Musammad Jinnatara Begum	39	Female	SSN	01716584506	30.04.2020
8	116442	Madhury Bepary	37	Female	SSN	01774450310	05.07.2020
9	115741	Runa Begum	33	Female	SSN	01746045735	05.07.2020
10	146410	Hawa Noor	50	Female	SSN	01727327894	05.08.2020
11	17635	Rabeya Bosri	28	Female	SSN	01997846385	17.05.2020
12	17636	Florish Ripa Ray	40	Female	SSN	017357134443	17.05.2020
13	20055	Shilpi Pervin	36	Female	SSN	01718771112	18.05.2020
14	27293	Most Tanjin Nnabar	36	Female	SSN	01718025656	23.05.2020
15	27312	Mrs. Jakia Sultan	31	Female	SSN	01310589597	23.05.2020
16	27375	Farzana Afrin	33	Female	SSN	01701796563	24.05.2020
17	viro_29097	Lipika Rani Sarker	32	Female	SSN	01740366607	06.07.2020
18	S203335	Razia Khatun	30	Female	SSN	01319637660	06.07.2020
19	67945	Khadizatul Kubra	26	Female	SSN	01762060801	15.06.2020
20	76159	Nilufa Yesmin	35	Female	SSN	01710437912	18.06.2020
21	84795	Rina Khatun	31	Female	SSN	01726967407	22.06.2020
22	2518	Anjana Biswas	37	Female	SSN	01742600390	24.06.2020
23	91535	Asmot Ara Khatun	35	Female	SSN	01406383606	25.06.2020
24	94142	Mrs. Sadika Laki	28	Female	SSN	01737471343	26.06.2020
25	99214	Jharna Akter	24	Female	SSN	01765718557	28.06.2020
26	99216	Rina Akter	29	Female	SSN	01887022671	28.06.2020

National Institute of Neurosciences and Hospital

COVID-19 Positive List (Doctors)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
27	103592	Moushumi Sultana Pia	25	Female	SSN	01635655983	30.06.2020
28	131961	Trisna Akter	33	Female	SSN	01626906049	18.07.2020
29	viro_37569	Most. Jesmin Akter	28	Female	SSN	01796268022	29.07.2020
30	1200502121	Henna Afrin	34	Female	SSN	01787796985	08.05.2020
31	67945	Sobuj Sheikh	26	Male	SSN	01762060801	08.06.2020
32	9878987890712	Md. Sobuj Shaikh	26	Male	SSN	01727003220	08.06.2020
33	27180	Mitali Roy	25	Female	SSN	01780609381	26.08.2020
34	169364	Nazma Begum	36	Female	SSN	01726311453	27.08.2020
35	148792	Kaberi Rani Mazumder	45	Female	SSN	01719579435	09.08.2020
36	228489	Khairun Nahar	38	Female	SSN	01728961201	09.11.2020
37	0171252074491	Jhanja Rani Mondul	52	Female	SSN	01712520744	09.11.2020
38	187923	Md. Sabuj Ali	33	Male	SSN	01719462824	13.09.2020
39	190316	Mst Monira Khatun	37	Female	SSN	01723803220	16.09.2020
40	192680	Jesmin Ara Pia	33	Female	SSN	01913579890	19.09.2020
41	194188	Shika Rani Pal	35	Female	SSN	01677286866	21.09.2020
41	197987	Juliet Sarder	58	Female	Nursing Superintendent	01712582766	26.09.2020
42	197985	Nilufa Yasmin	25	Female	SSN	01786938781	26.09.2020
43	210485	Reba Mery Gomez	40	Female	SSN	01718143265	17.10.2020
44	0164633115492	Setu Mandal	26	Female	SSN	01646331154	19.11.2020
45	0174550246000	Rumana Islam	33	Female	SSN	01745502460	21.11.2020
46	0175301790300	Sugandha Sarkar	26	Female	SSN	01753017903	24.11.2020
47	0172607006500	Luna Karmaker	40	Female	SSN	01726070065	26.11.2020
48	0170888195500	Mera Bepary	39	Female	SSN	01708881955	30.11.2020
49	S20317425	Kabita Rani Roy	40	Female	SSN	01706302852	12.06.2020
50	0162910610800	Zamir Uddin	50	Male	SSN	01629106108	14.12.2020
51	0162910610100	Hafiza Khatun	46	Female	SSN	01629106101	15.12.2020

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COVID-19 Positive List (Govt. Staff)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
1	7926	Ripon Chandra	27	Male	L.T	1813026790	04.05.2020
2	7928	Md.obaidul Haque	38	Male	Driver	1681482791	04.05.2020
3	115746	Manik Babu Das	30	Male	Lab Technician	1716336425	05.07.2020
4	14299	Abidur Rahman Sarker	42	Male	Mt	1711942333	13.05.2020
5	14302	Aminul Islam	30	Male	Driver	1789322865	13.05.2020
6	14311	Aiyub Ali	32	Male	Driver	1710578819	13.05.2020
7	20031	Shahnaz	29	Female	Ot Attendant	01956990542	19.05.2020
8	31490	Md. Asadullah	35	Male	Pharmacist	1719340659	27.05.2020
9	37330	Md. Al Amin Hossain	53	Male	Medical Technologists	1715391113	27.05.2020
10	32881	Alamgir Hossain	32	Male	Lt	1717203730	28.05.2020
11	117209	Boobli Hasan	35	Female	Computer Operator	1776291715	06.07.2020
12	viro-19292	Md. Mamunur Rashid	41	Male	Medical Technologists	1712183455	13.06.2020
13	71364	Saiful Islam	30	Male	Record Keeper	1680719756	16.06.2020
14	76170	Achiya Begum	33	Female	Stature Bearer	01703629494	19.06.2020
15	84792	Selim Azad	27	Male	Ecg Technician	1765593456	22.06.2020
16	86587	Hamim Sharif	29	Male	Record Keeper	1922422348	23.06.2020
17	91513	Imran Hossain	27	Male	Store Keeper	1782407685	25.06.2020
18	99273	Tania Akter	28	Female	Ot Attendant	01790891264	28.06.2020
19	103596	Hm Saiful Islam	28	Male	Audio Visual	1914622118	30.06.2020
20	11333	Babul Mia	35	Male	Et	1745054174	07.05.2020
21	131963	Fatema Khatun	29	Female	Medical Technologists (Lab)	1990285215	18.07.2020
22	167819	Abdur Rahim	32	Male	Assistant Store Keeper	01917162824	25.08.2020
23	200615	Md Sirajul Islam	31	Male	Technitian (Laboratory Medicine)	01747376242	30.09.2020
24	NINS-62	Aswini Kumar Pramanik	38	Male	Ward Master	1722361107	10.06.2020
25	214013	Md. Joynal Abedin	32	Male	Lab Technician	01776221237	22.10.2020
26	214010	Jesmin Banu Nipa	30	Female	Computer Operator	01776449123	22.10.2020

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COVID-19 Positive List (Govt. Staff)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
27	219930	SAIMA MOULA BINTE	29	Female	Speech Therapist	01682666169	31.10.2020
28	150298	BIBI AMENA	26	Female	Lab Technician	01682343832	11.05.2020
29	61580	APPLE MAHMUD	30	Male	Ict	1733143655	11.06.2020
30	61582	AZAD PARVAS	34	Male	Pharmacist	1913380618	11.06.2020
31	61588	IMRAN HOSSAIN	27	Male	Store Keeper	1782407685	11.06.2020
32	233725	RABEYA	30	Female	Eeg Machine Operator	01682576851	15.11.2020
33	233725	RABEYA	30	Female	Eeg Machine Operator	01682576851	16.11.2020
34	187089	RAKIBUL	30	Male	Technician Neuropathology	01911905341	12.09.2020

COVID-19 Positive List (Outsourcing Staff)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
1	31551	Juwel	28	Male	Ward Boy	1734782227	28.05.2020
2	NINS-17	Samsul Islam	28	Male	Ward Boy	1939972128	01.05.2020
3	38511	Liza	18	Female	Cleaner	1859097666	02.06.2020
4	42385	Ashraf Ali	40	Male	MLSS	1718482691	02.06.2020
5	144779	Md. Sohel Rana	30	Male	Ward Boy	1711021409	03.08.2020
6	44300	Jannatul Ferdous	48	Female	Aya	1773123811	04.06.2020
7	43109	Amir Hossain	21	Male	Table Boy	1779665865	04.06.2020
8	45766	Nadira	27	Female	Aya	1906428738	05.06.2020
9	116439	Sabuz	24	Male	Stature Bearer	1779766240	05.07.2020
10	12478	Abdul baten	28	Male	Ward boy	1845015108	12.05.2020
11	013053	Mohosina	34	Female	Aya	1794841316	13.05.2020
12	14339	Fakrul Islam	34	Male	Ward Boy	1646901633	14.05.2020
13	15359	Kamrul	31	Male	Ward boy	1840055507	15.05.2020
14	17647	Jahangir Alom	21	Male	Ward Boy	1748228813	17.05.2020
15	20029	Masud Rana	25	Male	MLSS	1948636269	18.05.2020
16	20030	Sobuj	23	Male	Ward boy	1890124950	19.05.2020
17	20031	Shahanj	29	Female	OT Attendant	1956990542	19.05.2020
18	20057	Kohinur Begum	32	Female	Cleaner	1710599951	19.05.2020

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COVID-19 Positive List (Outsourcing Staff)

SL. No	Lab.ID	Name	Age	Sex	Designation	Phone No.	Positive Date
19	23258	Hekmot	40	Male	Ward boy	1716728693	22.05.2020
20	23261	Rafikul Islam	35	Male	Ward boy	1915568742	22.05.2020
21	27316	Orpon Kumar	40	Male	Hospital Staff	1516773802	24.05.2020
22	32833	Nur Hossain	32	Male	Hospital Staff	1745385606	29.05.2020
23	32872	Rahima	30	Female	Hospital Staff	1931136877	29.05.2020
24	61584	Nurul Hudha	34	Male	Ward Boy	1755006910	13.06.2020
25	65177	Akhi	25	Female	Aya	1720578104	15.06.2020
26	65166	Rayhan Kabir	23	Male	Nirapotta Prohori	1763053251	15.06.2020
27	71355	Rina Akhter	40	Female	Hospital Staff	1707725051	17.06.2020
28	71367	Asheki Alahi (Ashik)	28	Male	Ward Boy	1636831646	17.06.2020
29	76170	Asiya Begum	33	Female	Aya	1703629494	19.06.2020
30	84793	Moznu Mia	30	Male	Hospital Staff	1747012916	22.06.2020
31	84796	Chameli Begum	30	Female	Aya	1735753151	22.06.2020
32	84797	Shahnaz Arefin	21	Female	Aya	1797533269	22.06.2020
33	84799	Aditto Raihan Rabby	20	Male	Hospital Staff	1521337125	22.06.2020
34	91526	Sultana Khan Anney (Sultana)	24	Female	Aya	1768179999	25.06.2020
35	91534	Rakibul Islam	27	Male	Ward Boy	1737428609	25.06.2020
36	94139	Shila Khatun	25	Female	Aya	1648885552	27.06.2020
37	94147	Moushumi	22	Female	Aya	1922422348	27.06.2020
38	99216	Rina	29	Female	Aya	1887022671	28.06.2020
39	138217	Lipi Akter	21	Female	Aya	1843616670	26.07.2020
40	139368	Helal Uddin	24	Male	Electrician	1927078766	28.07.2020
41	142493	Sumon	32	Male	Asst. Cocker	1983884147	29.07.2020
42	50347	Alamin Sardar	30	Male	Hospital Staff	1708144838	08.06.2020
43	171326	Md. Saddam Hossain	25	Male	Ward Boy	1799716157	29.08.2020
44	55122	Sakila	23	Female	Aya	1758114156	10.06.2020
45	124881	Rosna	40	Female	Aya	1875355712	11.07.2020
46	126064	Md. Rasel Khan	24	Male	Nirapotta Prohori	1779846060	12.07.2020
47	127777	Delowar Hossain	25	Male	MLSS	01636426160	03.08.2020