

Bangur Institute of Neurosciences

Neurosurgery

FACULTY, SENIOR RESIDENTS AND MEDICAL OFFICERS

Dr. Subhasis Ghosh	MBBS MS MCh	Professor and Head
Dr. Shahid Iftekhar Siddique	MBBS MS MCh	Associate Professor
Dr. Gitanjali Dutta	MBBS MCh	Associate Professor
Dr. Srikrishna Majhi	MBBS MCh	Associate Professor
Dr. Aniruddha Chatterjee	MBBS MS (Ortho) MCh	Assistant Professor
Dr. Sibaji Dasgupta	MBBS MS MCh	Assistant Professor
Dr. Shubhamitra Chaudhuri	MBBS MS MCh	Assistant Professor
Dr. Sabyasachi Saha	MBBS MS MCh	Senior Resident
Dr. Alok Nath	MBBS MS MCh	Senior Resident
Dr. Sudip Ghosh	MBBS MS DNB	Senior Resident
Dr. Rajnish Jaiswal	MBBS MS MCh	Senior Resident
Dr. Partha Ranjan Biswas	MBBS MS MCh	Senior Resident
Dr. Shivam Gour	MBBS MS MCh	Senior Resident
Dr. Priyaranjan Mondal	MBBS MS MCh	Senior Resident
Dr. Tathagata Dutta	MBBS MS MCh	Senior Resident
Dr. Arijit Ghosh	MBBS MS MCh	Senior Resident
Dr. Anjana Mukherjee	MBBS	Medical Officer
Dr. Shikha Roy	MBBS	Medical Officer

Postdoctoral Trainees (MCh Residents; 8 per year till 2019 10 residents per year from 2020)

2019-2022 (Degree recipients in 2022)	2020-2023	2021-2024
Dr. Rajnish Jaiswal Dr. Partha Ranjan Biswas Dr. Shivam Gour Dr. Priyaranjan Mondal Dr. Sourav Guria Dr. Tathagata Dutta Dr. Arijit Ghosh	Dr. Sanjib Halder Dr. Deepak Kumar Das Dr. Nitish Agarwal Dr. Mayank Chakraborty Dr. Rajat Dixit Dr. Rajan Singh Dr. Jitesh Middha Dr. Rohit Kamlesh Yadav Dr. Maheswar Murmu Dr. Anurup Saha	Dr. Ankan Ghosh Dr. Arijit Banik Dr. Varun Tiwari Dr. Devansh Mishra Dr. Rakesh Nayak Dr. Sanjeev Suman Dr. Barun Nayak Dr. Prabhjyot Bir Singh Multani Dr. Kaushal Nayak Dr. Bhaskar Sharma

FACULTY NEWS

Prof. Subhasis Ghosh

Publications

- Sandhu G S, Ghosh S, Chaudhari S et al: Evaluation of early and delayed infarcts following clipping of ruptured intracranial aneurysm: impact on short and medium term outcome using DW MRI. IJSR,2021:10(8)
- Dutta G, Saha S, Disiar D, et al; Incidence and management of inadvertent dural injury in lumbar spine surgery: IJMHR,2021:7(7):45-48
- Chatterjee S, D'siar D, Ghosh S, Dutta G, Chaudhari S: Use of Neuronavigation in posterior fossa and pineal region tumour surgery: Technical challenges. Int J Surg Sci 2021;5(1):258-262

- Zero-profile anchored spacer system in the treatment of cervical degenerative disease with a follow up of 1 year- our experience: IJAR; 2021:11(3)
- Non-aneurysmal non-traumatic spontaneous subarachnoid hemorrhage: patient characteristics, clinical outcome based on a single center experience in 60 patients.
- Spontaneous non aneurysmal non-traumatic subarachnoid hemorrhage ; patient characteristics clinical outcome and prognostic factor in a tertiary care center of eastern India.
- Post decompressive craniectomy hydrocephalus in TBI patients : a tertiary care center experience: GJRA ;2021:10(2)
- A prospective longitudinal clinical study of patients admitted with traumatic acute subdural hematoma and underwent decompressive craniectomy with special reference to prognostic factors
- Paediatric posterior fossa tumors: an epidemiological and analytical study at tertiary care center in eastern India: IJAR;2021,11(4)
- Impact of diffuse traumatic brain injury on survival and quality of life in eastern India: International Journal of Scientific Study: Sept 2022 Vol 10 Issue 6
- Assessment of quality of life among patients undergoing decompressive craniectomy in a tertiary care hospital of eastern India: European Journal of Molecular and Clinical Medicine Vol 9 , Issue 4, 2022

Dr. Shahid Iftekhhar Sadique

Publications

- A rare case of dorsal spine primitive neuroectodermal tumor (PNET) presenting with features of Pott's spine
- Paediatric posterior fossa tumors: an epidemiological and analytical study at tertiary care center in eastern India: IJAR,2021:11(4)
- Hazards of Titanium mesh cranioplasty: IJSR;2021,10(6)
- Measurement of optic nerve sheath diameter as a non-invasive tool for monitoring of intracranial pressure during preoperative, intraoperative and post operative period in patients with supratentorial intracranial space occupying lesions: European Journal of Molecular and Clinical Medicine, Vol 9, Issue 4
- Giant occipital encephalocele – a study of 5 patients
- External ventriculostomy and intraventricular instillation of recombinant tissue plasminogen activator for management of spontaneous intraventricular hemorrhage: prospective study
- Cytological features in pilomyxoid astrocytoma: a case report with summary of prior published cases
- primary cerebral hydatidosis in a child: a case report with a rare site of occurrence
- Management of traumatic pseudo aneurysm of the supraclinoid internal carotid artery using coil embolization: a case report

Dr. Gitanjali Dutta

Publications

- Dutta G, Saha S, Disiar D et al; Incidence and management of inadvertent dural injury in lumbar spine surgery: IJMHR,2021:7(7):45-48
- Chatterjee S, D'siar D, Ghosh S, Dutta G, Chaudhari S: Use of Neuronavigation in posterior fossa and pineal region tumor surgery: Technical challenges: Int J Surg Sci 2021;5(1):258-262
- Non-aneurysmal non-traumatic spontaneous subarachnoid hemorrhage: patient characteristics, clinical outcome based on a single center experience in 60 patients.
- Spontaneous non aneurysmal non-traumatic subarachnoid hemorrhage; patient characteristics clinical outcome and prognostic factor in a tertiary care center of eastern India.
- Role of Intraoperative abdominal fat augmented duroplasty in spinal intradural tumors for prevention of CSF related complications: European Journal of Molecular and Clinical Medicine, 2022, Vol 9
- Rare case of subdural empyema presenting as chronic subdural hemorrhage: European Journal Of Molecular and Clinical Medicine, 2002, Vol 9

Dr. Aniruddha Chatterjee

Publications

- Cervical spondylotic myelopathy – different types of surgical techniques and their surgical outcomes in terms of patient recovery: Global Journal of Research analysis, Vol 11, Issue 2, 2022
- Traumatic Brain Injury in pediatric patients – Clinical manifestations and outcomes: Asian Journal Of Medical Sciences Vol 3, Issue 12, Dec 2022

Dr. Sibaji Dasgupta

Publications

- Caudal migration and trans anal extrusion of ventriculoperitoneal shunt in a child : Case report : Global Journal of Research Analysis, Vol 11, Issue 2, Feb 2022

Dr. Subhomitra Chaudhuri

Publications

- Use of Neuronavigation in posterior fossa and pineal region tumor surgery: Technical challenges
- Zero-profile anchored spacer system in the treatment of cervical degenerative disease with a follow up of 1 year- our experience
- Non-aneurysmal non-traumatic spontaneous subarachnoid hemorrhage: patient characteristics, clinical outcome based on a single center experience in 60 patients.
- • Spontaneous non aneurysmal non-traumatic subarachnoid hemorrhage ; patient characteristics clinical outcome and prognostic factor in a tertiary care center of eastern India.
- Impact of diffuse traumatic brain injury on survival and quality of life in eastern India: International Journal of Scientific Study: Sept 2022 Vol 10 Issue 6
- Assessment of quality of life among patients undergoing decompressive craniectomy in a tertiary care hospital of eastern India: European Journal of Molecular and Clinical Medicine Vol 9 , Issue 4, 2022
- External ventriculostomy and intraventricular instillation of recombinant tissue plasminogen activator for management of spontaneous intraventricular hemorrhage: prospective study
- Management of traumatic pseudo aneurysm of the supra clinoid internal carotid artery using coil embolization: a case report

Dr. Sabyasachi Saha

Publications

- Dutta G, Saha S, Disiar D, et al; Incidence and management of inadvertent dural injury in lumbar spine surgery: IJMRH,2021;7(7):45-48
- Saha S, Chatterjee S, Ghosh S; et al. Pediatric head injury in tertiary care neurosurgery facility of eastern India: a prospective study; accepted for publication.
- Saha S, Chatterjee S, Ghosh S: complications of ventriculoperitoneal shunt in a tertiary care center of eastern India: a retrospective institutional experience; accepted for publication

Dr Alok Nath

Publications

- Zero-profile anchored spacer system in the treatment of cervical degenerative disease with a follow up of 1 year- our experience

Dr. Sudip Ghosh

Publication

- Ventriculo cholecystal shunt as a salvage procedure in shunt dependent hydrocephalic children with compromised peritoneal cavity: Neurology India.
- Ventriculo subgaleal shunts – broadening the horizons : an institutional experience.

ACADEMIC ACTIVITY

- Journal Club (Mondays 8:30 am to 9:30 am)
- Neuroradiology Seminar (Thursdays 8:30 am to 9:30 am)
- Clinical Meeting (Saturdays 8:30 am to 10:30 am)
- Seminars with 3 presenters, one of each year (3rd and 4th Saturdays 2 pm onwards)
- Monthly Audit and Mortality Statistical Review (1st Saturday 2 pm onwards)
- Operative Neurosurgery Meet (3rd Saturday 8:30 am to 9:30 am)

Research publication from residents

Dr. Rajnish Jaiswal

- Atypical presentation of World Health Organization Grade I Meningioma: Case report: Asian Journal Of Medical Sciences

Dr. Partha Ranjan Biswas

- Impact of diffuse traumatic brain injury on survival and quality of life in eastern India: International Journal of Scientific Study: Sept 2022 Vol 10 Issue 6
- Assessment of quality of life among patients undergoing decompressive craniectomy in a tertiary care hospital of eastern India: European Journal of Molecular and Clinical Medicine Vol 9 , Issue 4, 2022

Dr. Shivam Gour

- Impact of diffuse traumatic brain injury on survival and quality of life in eastern India: International Journal of Scientific Study: Sept 2022 Vol 10 Issue 6
- Assessment of quality of life among patients undergoing decompressive craniectomy in a tertiary care hospital of eastern India: European Journal of Molecular and Clinical Medicine Vol 9 , Issue 4, 2022

Dr. Priyaranjan Mondal

- Role of Intraoperative abdominal fat augmented duroplasty in spinal intradural tumors for prevention of CSF related complications: European Journal of Molecular and Clinical Medicine, 2022, Vol 9
- Rare case of subdural empyema presenting as chronic subdural hemorrhage: European Journal of Molecular and Clinical Medicine, 2002, Vol 9

Dr. Tathagata Dutta

- Measurement of optic nerve sheath diameter as a non-invasive tool for monitoring of intracranial pressure during preoperative, intraoperative and post operative period in patients with supratentorial intracranial space occupying lesions: European Journal of Molecular and Clinical Medicine, Vol 9, Issue 4
- Spinal ependymomas with central nervous system diffuse siderosis - rare case: International Journal Of Case reports in surgery 2021
- Giant occipital encephalocele – a study of 5 patients

Dr. Arijit Ghosh

- Cervical spondylotic myelopathy – different types of surgical techniques and their surgical outcomes in terms of patient recovery : Global Journal of Research analysis, Vol 11, Issue 2, 2022
- Traumatic brain injury in pediatric patients – Clinical manifestations and outcomes : Asian Journal Of Medical Sciences Vol 3, Issue 12, Dec 2022
- Caudal migration and trans anal extrusion of ventriculoperitoneal shunt in a child : Case report : Global Journal of Research Analysis, Vol 11, Issue 2, Feb 2022

3rd year PDT thesis topics

PDT	Guide / Co-Guide	Topic
Dr. Sanjib Halder	Dr. Subhasis Ghosh Dr. Subhamitra Chaudhuri Dr. Uttara Chatterjee	Clinico-pathological prospective observational study of pediatric intracranial and spinal astrocytic tumors with special reference to the role of BRAF- V600 E mutation and IDH 1 mutation.
Dr. Deepak Kumar Das	Dr. Gitanjali Dutta Dr. Harish Chandra Gupta	A prospective observational study of clinical outcome of operated patients of intradural extramedullary lesion (SOL) in a tertiary care centre.
Dr. Nitish Agarwal	Dr. Subhasis Ghosh Dr. Subhamitra Chaudhuri	A prospective observational study of the role of intraoperative microsurgical cisternostomy in traumatic brain injury patients undergoing decompressive surgery.

Dr. Mayank Chakraborty	Dr. Subhasis Ghosh Dr. Subhamitra Chaudhuri	A prospective observational study of the use of intraoperative dye based video angiography in microsurgical management of intracranial vascular pathologies.
Dr. Rajan Singh	Dr. Subhasis Ghosh Dr. Harish Chandra Gupta	A prospective observational study of benefits and limitations of endoscopic assisted microneurosurgery in brain tumors in a tertiary care center of eastern India.
Dr. Maheswar Murmu	Dr. S. I. Sadique	A comparative study in use of Duragen (collagen matrix) and pericranial graft in cases of cranial dural defect repair.
Dr. Rajat Dixit	Dr. S. I. Sadique Dr. Harish Chandra Gupta	Comparison of surgical outcomes of cervical artificial disc to anterior cervical discectomy and fusion in the treatment of symptomatic degenerative disc disease in cervical spine- a prospective clinical study in a tertiary care center in eastern India.
Dr. Jitesh Middha	Dr. Subhasis Ghosh Dr. Subhamitra Chaudhuri	Prospective observational study of different modalities of posterior cranio-cervical or atlanto-axial fusion in patients with cranio-vertebral junction anomalies.
Dr. Rohit Kamlesh Yadav	Dr. Subhasis Ghosh Dr. Subhamitra Chaudhuri	Prospective observational study of use of intraoperative microscopic fluorescence-based visualization in microsurgical excision of intracranial and spinal intra-axial neoplasm.
Dr. Anurup Saha	Dr. S. I. Sadique	Prospective observational study on endoscopic third ventriculostomy vs ventriculo-peritoneal shunt in patients of non-communicating hydrocephalus in eastern India.

1st Year PDT Thesis Topics

PDT	Topic
Dr. Ankan Ghosh	Prospective observational study of intracranial and spinal ependymomas with special reference to RELA fusion, YAP1 and other immunohistochemical markers.
Dr. Arijit Banik	An observational study of neuronavigation guided and conventional method resection of brain tumor.
Dr. Varun Tiwari	An observational study of various cranio-orbital pathological lesions causing unilateral proptosis and their surgical approaches and management.
Dr. Devansh Mishra	Prospective observational study of surgical outcomes of lipomyelomeningocele.
Dr. Rakesh Nayak	An observational study of uses of intraoperative ultrasound in neurosurgery.
Dr. Sanjeev Suman	Clinical profile of hemangioblastoma.
Dr. Barun Nayak	An observational study of navigation guided and conventional method placement of ventricular end of ventriculoperitoneal shunt.
Dr. Prabhjyot Bir Singh Multani	Clinicopathological study of meningiomas and non-meningothelial mesenchymal dural based lesions.
Dr. Kaushal Nayak	A prospective analytical study of frameless neuronavigation guided brain biopsy.
Dr. Bhaskar Sharma	Prospective comparative study of frame vs frameless stereotactic brain biopsy.

Ongoing research projects

- Trauma Audit Filter Trial (TAFT) – a 5 Year (2016-2021) prospective Analysis of Trauma Audit Modifiers – PI Prof. Subhasis Ghosh ; Co Investigator Dr. Shubhamitra Chaudhuri (In Collaboration With Karolinska Institute Sweden) Conducted by the Swedish Research Council.
- TTRIS - Trauma Triage Study - In Collaboration With Karolinska Institute Sweden – PI Prof. Subhasis Ghosh and Prof. M. L. Saha; Co Investigator Dr. Shubhamitra Chaudhuri.(recently concluded-now in data analysis phase).
- Implimentation Of AMSP In Various Tertiary Care Hospital In India: ICMR Funded, PI:Dr Raja Roy & Dr A. Kundu, Co PI Prof Subhasis Ghosh.

SERVICE INFORMATION**Services provided**

- Neurosurgery OPD Monday to Saturday every week at BIN (currently running at CI Block Premises)
- Neurosurgery OT 1 and 2 Monday to Saturday at BIN
- Daily Neurosurgery Elective as well as emergency OT at SSKM Main TCC OT Complex
- 24x7x365 BIN Emergency and Emergency Admission Services at Level 1 Trauma care center / NCB / Alex / CCU
- Round the clock Emergency Operations at TCC OT Complex

Services Summary (01/12/2021 to 30/11/2022)

OPD attendance(new tickets only)	72236
Admissions in BIN	1590
Major operations in BIN	1718
Minor operations in BIN	915
Diagnostic DSA in BIN	96
Endovascular neurointerventions (Aneurysm coiling / AVM embolization) in BIN	52
Total operations in BIN (major + minor + diagnostic DSA + Endovascular intervention)	2781
Admissions in SSKM hospital (NCB,Paediatrics,CCU)	1254
Operations SSKM done at TCC OT	1102
Operations SSKM hospital – (spine cases of NCB done at TCC OT)	145
Total operations SSKM hospital	1247
Trauma care center admission	3210
Trauma care center emergency cranial cases	1021
Trauma care center emergency spine cases	154
Total admissions neurosurgery department BIN and SSKM Hospital	6054
Total operations neurosurgery department BIN and SSKM hospital	5203