



NEUROSCIENCES



RESPECT FOR LIFE

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Respect *for* Life
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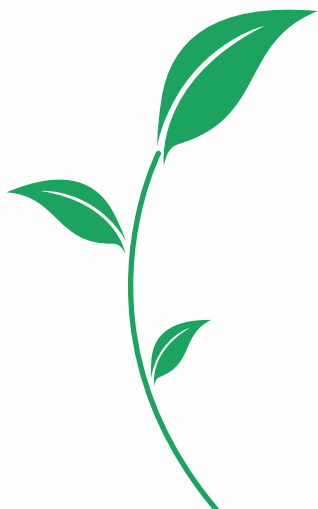


At Sir H. N. Reliance Foundation Hospital and Research Centre, our Department of Neurosciences provides comprehensive and multi-disciplinary care for disorders of the brain and spine. A team of highly qualified neurologists, neurosurgeons and specialists from other disciplines provide the best possible care to patients.

We conduct in-depth investigations for a comprehensive understanding of the individual's condition. An integrated team approach ensures that all available options are considered and presented to the patient in an unbiased fashion. Our techniques combine tried and tested traditional practices with state-of-the-art equipment to offer synergies and hybrid solutions to complex problems. We provide all-round neurological care encompassing early diagnosis, medical care, surgical treatment, Neuro-rehabilitation and prevention.

Indeed, at Sir H. N. Reliance Foundation Hospital and Research Centre, we don't just treat the body, we go further: we respect life.

NEUROSCIENCES: Level 2, Heritage, 8 am – 8 pm



TECHNOLOGY & INFRASTRUCTURE

In the Department of Neurosciences, we have state-of-the-art infrastructure and cutting-edge technology to ensure the best outcomes for patients suffering from brain, spine, peripheral nerves and neuromuscular ailments:

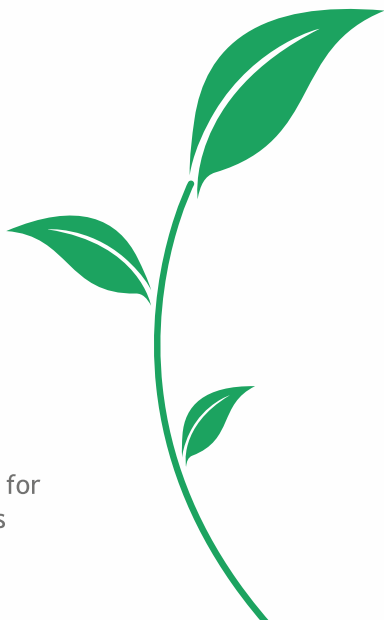
- 3T MRI machine/264 slice CT scan
- A CT machine in the Emergency department for immediate imaging in cases of acute stroke and head injury
- 32 channel and portable EEG machine
- EMG (Electromyography) equipment
- Dedicated, fully-integrated Neurosurgery operation room for routine and emergency neurosurgery procedures
- Hybrid OR with robotic arm to aid precision in interventional neurosurgery
- Neuro-endoscopic station for minimally invasive brain and spine surgery
- Computer-aided navigation system for surgical accuracy
- Intra-operative neuro-monitoring system for safe surgery
- Carl Zeiss Pentero 900 Neuromicroscope for microneurosurgery
- Trauma Centre for immediate management of head and spine injuries
- 24x7 operational Blood Bank and Emergency Services

NEUROLOGY

Our Department offers comprehensive diagnosis and treatment for a wide range of neurological conditions at par with international standards. Our qualified and highly experienced neurologists utilise Protocol and Care Pathway-based treatment methods to ensure the best outcomes for patients.

CLINICAL SERVICES

- Comprehensive Stroke Centre for emergent management of Acute Stroke and TIA
- 24 x 7 facility for Neurointervention
 - Primary & Secondary stroke prevention clinics
- Epilepsy services
 - Epilepsy clinic which manages refractory epilepsy
 - Evaluation for epilepsy surgery
- Movement Disorder Services
 - Management of Parkinson's disease & other movement disorders
 - Botulinum toxin treatment for dystonias, spasticity, hemi facial spasm etc.
 - Neurological evaluation for movement disorders surgery
- Management of nerve, neuro-muscular junction and muscle diseases
- Sleep studies
- Memory Clinic
- Day care for Dementia patients
- Brain tumour management
- Normal pressure hydrocephalus
- Neuro-rehabilitation
- Trigeminal neuralgia management
- Wilson disease management
- Management of neuro trauma
- Domiciliary care
 - Medical & Paramedical services for Neurologically disabled patients



NEURODIAGNOSTIC UNIT

- EEG: Electroencephalography
- Video EEG: Video Electroencephalography (2 hours, 4 hours, 8 hours, 24 hours, 48 hours, 72 hours)
- EMG: Electromyography
- NCV: Nerve Conduction Velocity
- SSEP: Somatosensory Evoked Potentials
- BERA: Brainstem Evoked Response Audiometry
- VEP: Visual Evoked Potentials
- ERG: Electroretinography
- Magnetic stimulation
- Carotid duplex ultrasound and trans cranial Doppler studies

NEUROPSYCHOLOGY UNIT

- Neuropsychological assessment, follow-up and intervention for patients with dementia, head injuries and other brain disorders

NEUROSURGERY

Our Department offers advanced, multi-disciplinary treatment and neurosurgical management for a wide range of neurological conditions. Our focus is not only on diagnosis and treatment of neurological conditions, but also on rehabilitation and prevention.

SERVICES

- Vascular neurosurgery: Intracranial aneurysm, Arterio-Venous Malformations (AVM), low flow and high flow bypass, intracranial bleed
- Neuro-onco surgery: Microscopic/endoscopic brain tumour excision, ALA guided brain tumour excision, endonasal skull base tumour excision
- Interventional neurosurgery: Coiling of aneurysm, AVM and tumour embolisation
- Functional neurosurgery: Epilepsy surgery, Deep Brain Stimulation (DBS) for Parkinsonism
- Paediatric neurosurgery: Endoscopic third ventriculostomy, cranosynostosis, hydrocephalus, tethered cord
- Peripheral neurosurgery: Peripheral nerve tumours and injuries, carpal tunnel syndrome, tarsal tunnel syndrome
- General neurosurgery: Traumatic brain injury, tuberculoma, brain abscesses, neurocysticercosis, hydrocephalus



NEURO SPINE SURGERY

Our Department specialises in surgical treatment of the entire spectrum of spine disorders, providing services from diagnosis to surgery and rehabilitation. A multi-disciplinary approach ensures access to the most up-to-date approaches in spine care. The Rehabilitation Centre provides conservative and post-operative management of spinal disorders.

SERVICES

- Microscopic/endoscopic cervical discectomy and fusion
- Microscopic/endoscopic lumbar discectomy and canal decompression
- Dynamic fixation solution for spinal instability
- Fixation for craniovertebral and cervical instability
- Spinal fusion for spondylolisthesis
- Microscopic surgery for intradural and extradural spinal tumours
- Embolisation of Arterio-Venous Malformation, dural fistula and spinal tumours
- Vertebroplasty, kyphoplasty and discography
- Baclofen pump for spasticity
- Neurostimulator implantation for incontinence and pain
- Management of spina bifida and tethered cord
- Chiari malformation and myelomeningocele
- Spinal trauma management
- Management of Koch's spine (TB spine) and other infective spine diseases
- Non-operative management and rehabilitation
- Botox injection for management of spasticity and rigidity
- Pre-operative diagnostic and intraoperative evoked potential monitoring
- Electromyogram (EMG), Nerve Conduction Velocity (NCV)