

## ABOUT QRG HEALTH CITY

QRG Health City is a super speciality hospital committed towards providing exemplary medical care by ethical practices and providing world class services to people of Faridabad and beyond. We at QRG Health City are committed to set a benchmark in quality and affordable healthcare for all, provide comfort and safety to patients and support to their families. This 450 bed hospital has top-of-the-line doctors, state-of-the-art patient-friendly facilities and a large fleet of fully equipped ambulances with life-saving equipment and highly trained medical professionals to handle emergencies.

Offering expertise in Cardiology & Cardiothoracic surgery, Neurosciences, Gastroenterology & Hepatobiliary Science, Minimally Invasive Surgery including Bariatric Surgery, Mother & Child Care, Nephrology & Urosciences, Orthopaedics & Spine, Ophthalmology, ENT & Cochlear Implant, Dental Services, Plastic & Cosmetic Surgery, and Advanced Diagnostics & Critical care and more, we make sure everything is taken care of to help people become healthy both during emergencies and for planned treatment.

### QRG Health City

Plot No.1, Sector-16, Faridabad-121002 (Haryana)

Phone: 0129 - 4330000

Website: [qrgmedicare.com/healthcity](http://qrgmedicare.com/healthcity)

Regd. Office: 904, 9th Floor, Surya Kiran Building, K.G.

Marg, Connaught Place, New Delhi-110 001 (INDIA).

CIN: U74999DL2010PLC205776

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QRGHealthCity



At QRG Health City, our dedicated team of physicians and surgeons specialize in providing well-rounded and compassionate care for patients suffering from complex neurological disorders. In addition, we provide expert pre-surgery counseling for patients and families, a comfortable and secure environment for speedy, post-surgery precautionary care, as well as advice from nutritionists and health experts to suggest diet and exercises for full health recovery and maintenance of a healthy lifestyle in future.

Take the first step towards a healthier you and seek our expert advice.

### SERVICES AT A GLANCE:

#### Neurotrauma

- Comprehensive management of head and spine injury cases
- Round the clock availability of trauma & critical care team

#### Spine Disorders Services

- Minimal Access Surgical Technique (MAST) for degenerative spine disease
- Surgery for Kyphoscoliosis (abnormal curvature of spine)
- Kyphoplasty & Vertebroplasty for spinal fractures
- Endoscopic surgery for Lumbar Disc Prolapse/ Slip Disc/ Sciatica
- Artificial Lumbar & Cervical Disc Replacement Surgery

#### Skull Base & Endoscopic Neurosurgery

- Transnasal Endoscopic Pituitary Tumour Surgery
- Excision of skull base lesions by Endoscopy
- Endoscopic repair of CSF Rhinorrhoea (leaking of brain fluid through nose)

#### Vascular Neurosurgery

- Surgery for brain Haemorrhage & Stroke
- Microneurosurgery for Aneurysm & Arteriovenous malformations

#### Endovascular Neurointervention

- Cerebral Digital Substraction Angiography (DSA) and coiling of the Aneurysm & Arteriovenous malformations of brain & spine
- Preoperative Embolization of complex tumours/vascular lesions of brain & spine

#### Pediatric Neurosurgery

- Endoscopic treatment (third Ventriculostomy) for Hydrocephalus
- Treatment for congenital (birth defects) of brain and spine
- Surgery for Paediatric Brain Tumours

#### Comprehensive Epilepsy Program

- State of art video EEG
- 3 Tesla MRI with epilepsy protocol
- Intraoperative monitoring
- Surgery for epilepsy

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#### Neuro-Oncology

- Microneurosurgery for complex brain/spine tumours
- Awake Craniotomy for lesions in the eloquent areas of brain like memory/speech area & motor control areas of brain

#### Stereotactic & Functional Neurosurgery

- Stereotactic Biopsy of the lesions in the deep areas of brain
- Deep brain stimulation for Parkinsonism, Dystonia, tremors and other movement disorders

#### Peripheral Nerve Surgery

- Surgery for Brachial and Lumbar Plexus
- Surgery for Traumatic Nerve Injuries (nerve repositioning/ nerve grafting)
- Surgery for Carpal Tunnel & Cubital Tunnel Syndrome

#### Pain Clinic

- Nucleoplasty & other interventional procedures/injections for low back pain & cervical pain
- Radiofrequency lesioning for trigeminal neuralgia/facial pain
- Ozone therapy for low back pain

#### Supportive Services

- Neurorehabilitation by the integrated team approach of advanced physiotherapy center, dietician, psychotherapist & speech therapist.
- Hyperbaric oxygen therapy, biofeedback. Orthotic & supportive aid specialist help the patient on the road to recovery



We Understand Your  
Nervous System Better.



INSTITUTE OF  
NEUROSCIENCES

[www.qrgmedicare.com/healthcity](http://www.qrgmedicare.com/healthcity)

The Institute of Neurosciences at QRG Health City is designed to provide the utmost levels of professional expertise with the help of an integrated team of highly acclaimed Neurosurgeons, Neurologists, Neuro-radiologists, Psychiatrists, Neuro-critical care and Neuro-rehabilitation specialists. The Specialists at the Institute work on a range of serious diseases including severe brain & spine trauma, complex brain & spine tumours, degenerative spine diseases, congenital disorders (birth defects) of brain & spine, brain haemorrhage & stroke, epilepsy, Alzheimer's disease, Parkinson's disease, multiple sclerosis, depression, schizophrenia, mental illness, etc.

The Institute has high-end technologies, including the first integrated Brain SUITE (most advanced neuro-surgical operating room) along with dedicated neuro – intensive care unit which has all facilities like Neuro navigation, high-end operative



microscope & pneumatic drills, CUSA (ultrasonic aspirator), Neuro-endoscope, Intra cranial pressure monitoring system, Transcranial Doppler, etc. This state-of-the-art system is backed up with highly specialized diagnostic equipments such as 3 Tesla (high field) MRI, the first of its kind in Delhi NCR, 128 slice CT scan & Neuroelectrophysiology lab & Neuro histopathology services.

The Institute services are available from Monday to Saturday from 9 A.M. to 5 P.M. and there is a support team available on call for 24x7.

#### EXCELLENCE IN NEUROSURGERY AT QRG HEALTH CITY:

The Department of Neurosciences provides an accurate diagnosis and treatment for the full range of neurological diseases.

We have an expert group of Neurosurgeons & Neuro-physicians made up of multidisciplinary collaborators committed to achieve the best outcomes.

Through world-class, patient-focused care; innovative clinical and laboratory research; and specialized academic training, Department of Neurosurgery at the QRG Health City provides complete Neurosurgical expertise to patients with disorders of brain, spine & peripheral nervous system. Our Neurosurgeons offer an array of services including Cerebrovascular, Spinal,

functional, traumatic, tumor, and Pediatric Neurosurgery at this hospital and at the QRG Central Hospital and Research Center

#### NEUROLOGY

Neurology is the non-surgical medical specialty dealing with diagnosis and treatment of all conditions involving the central and peripheral nervous system. This form of treatment includes medication and steroids for the treatment and control of strokes, epilepsy, Parkinson's disease, Multiple Sclerosis (MS), etc.

#### Epilepsy

A neurological disorder occurs due to persistent sensory disturbance, loss of consciousness, or convulsions, associated with abnormal electrical activity in the brain.

#### Treatment

Below are the treatment options available for Epilepsy at the hospital:

- **Surgery:** Surgery is only possible for a minority of people with epilepsy and it is only considered when medication fails to prevent seizures.
- **Vagal nerve stimulation:** A small generator is implanted under the skin below the left collar bone to reduce the frequency and intensity of seizures.
- **Medications**

Our team of experts specializes in the diagnosis and treatment of complex diseases of the nervous system affecting the brain, spinal cord, peripheral nerves and muscles. We are well equipped to handle a range of diseases including epilepsy, stroke, multiple sclerosis, brain and spinal cord injury, Alzheimer's disease, Parkinson's disease as well as mental illness such as depression and schizophrenia.

The diagnostic technology at QRG Health City features an array of sophisticated instruments that enable accurate and speedy diagnosis. This includes the most advanced Operating Microscope, Neuro Endoscopes, Minimally Invasive Neurosurgical Equipment, Video Electroencephalography (EEG) and Electromyography (EMG).

#### Symptoms of a stroke can include

- Sudden onset of weakness or numbness, especially on one side of the body
- Lack of muscle coordination and balance, difficulty in movement
- Diminished vision in one or both eyes, double vision, sudden problems in perception/recognition
- Severe and unexplained headache
- Difficulty in speaking (slurring), confusion, trouble in understanding

#### Symptoms of multiple sclerosis (MS) can include

- Blurring of vision, pain in the eye, colour blindness, flashes of light on eye movement
- Numbness, tingling, abnormal weakness and sensations in muscles
- Painful contractions in muscles, spasms
- Fatigue, feeling of extreme tiredness
- Loss of balance, coordination and mobility because of ataxia, tremors or dizziness/vertigo
- Problems in reasoning, thinking, understanding and problem solving
- Anxiety, depression, rapid mood changes

#### Symptoms of epilepsy/seizures can include

- Unusual smells, tastes or feelings
- Lapses of memory, forgetfulness
- Sudden jerks of arm, leg or body
- Feeling disoriented, confused and sleepy without cause, episodes of daydreaming
- Numbness, tingling, abnormal feeling of weakness
- Unexplained headaches
- Sudden loss of control of urine or stool

#### Neuro Rehabilitation

Neurological Rehabilitation provides specialized management for people who have impairments as a result of brain or spinal cord injury, stroke or other neurological condition. It is an integral part of medical management and continues longitudinally through acute care, post-acute care until community integration.

These patients are rehabilitated through appropriate physiotherapy, speech therapy or occupational therapy.

Our Rehabilitation services include:

- Physiotherapy
- Speech Therapy
- Biofeedback
- Balancing and posture training
- Counseling and domiciliary guidance
- Diet help

#### Technology & Infrastructure

Technology aids in accurate diagnosis of ailments for fast recovery. Take a glance at QRG Health City's cutting-edge-technology.

State-of-the-art Brain and Spine Surgery Suite for complex brain & spine surgeries which comprises of:

- Very advanced Operating Microscope along with Intraoperative Fluorescence guided Tumour Resection & Angiography
- Image Guidance System
- Intraoperative Ultrasound for precise resection of brain tumors
- Intraoperative Transcranial Doppler for Aneurysm & other brain surgeries
- C.U.S.A. (Cavitron Ultrasonic Aspirator)
- High end neuro Endoscopes
- High speed pneumatic drill
- Minimally Invasive Neurosurgical Equipments
- Intraoperative nerve & brain monitoring system
- Sophisticated Angiography Suite for vascular lesions of brain & spine
- 3D DSA (Digital Subtraction Angiography) - Capable of giving rotational images
- Facility for Intraoperative Angiography

#### Advanced Neuroradiologic Suite for making accurate diagnosis of neurological diseases which comprises of:

- 3 Tesla M.R.I.
- Most advanced 128 Slice C.T. scan – capable of doing non invasive angiography of brain
- Video Electroencephalography (EEG)
- Visual evoked potential (V.E.P.) & Brain stem auditory evoked potential (B.A.E.R.) Electromyography (E.M.G.)
- Nerve Conduction Velocity (N.C.V.)
- Neurohistopathology services- specialized Histochemistry & Immunochemistry tests are helpful in a precise diagnosis of certain difficult brain & spine tumors. Frozen section biopsy facility helps in making quick diagnosis of tumors during surgery.

#### Neurointensive Care and Stroke ICU which comprises of:

- Dedicated I.C.U. for neurosurgical & stroke patients which are monitored by neurointensivists
- Facility for Intra cranial pressure monitoring and advanced ventilators, multipara monitors with integrated central monitoring system
- Advanced stroke care team for thrombolytic therapy, balloon angioplasty & carotid stenting

QRG Health City is equipped with all the state of the art tools enabling accurate diagnosis and effective treatment of neurological disorders. Our cutting edge diagnostic equipment includes high-end electroencephalogram (EEG), video EEG, electromyography (EMG), Evoked potentials, computer assisted tomography (CT), magnetic resonance imaging (MRI) and cerebral or spinal angiography. We also have the most advanced operating microscopes for microsurgeries and neuro endoscopes designed for minimally invasive procedures.