



**10/10**  
in Clinical Excellence

Institute for **ADVANCED ORTHOPAEDICS** offering  
broad spectrum of high quality **MULTISPECIALITY** services



## Department of Spine



**GERMANTEN**  
**HOSPITALS**  
ENGINEERING HEALTH

TM

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SPECIALIST IN TRAUMA, JOINT REPLACEMENTS, SPINE SURGERY,  
SPORTS MEDICINE & PAEDIATRIC ORTHOPAEDICS

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## Department of Spine & Neurology

**GERMANTEN HOSPITALS,  
CENTRE OF EXCELLENCE IN SPINE  
SURGERIES & CARE LEAD BY  
EXPERT SPINE SURGEONS WHO  
ARE INTERNATIONALLY  
RECOGNISED.**



3D C-ARM



Navigation System



IONM System

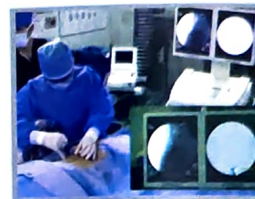
- Microsurgery and fusion procedure under 3D Image intensifier with flat panel technology
- Brain Lab Navigation system to ensure precise surgical result
- Intra operative Nerve Monitoring systems for disc lesion and sciatica surgery
- Spinal Endoscopy under local anesthesia
- Minimally Invasive Spine Surgery using Lasers
- Percutaneous Endoscopic Lumbar Disectomy (PELD)
- where patients can go home in 12 hours post surgery

### World class Non-surgical Treatments for Back Pain and Sciatica **FLUOROSCOPIC / ULTRASOUND / ENDOSCOPIC/ CT GUIDED PROCEDURES:**

#### FLUOROSCOPIC / ULTRASOUND / ENDOSCOPIC / CT GUIDED PROCEDURES:

- Cervical & Lumbar Discography with Intradiscal Decompression (Biacuplasty, Stryker Drill Dekompressor Arthrocare coblation, Hydrocision & Endoscopic)
- Lumbar / Cervical / Caudal / Transforaminal Decompressive Neuroplasty with Epidural Adhenolysis &
- Balloon Neuroplasty, Selective Nerve Root Blocks & PRF of DRG
- Facet (Cervical / Thoracic / Lumbar) RF Denervation, Facet Joint Blocks
- Vertebroplasty, Balloon Kyphoplasty, Sacroplasty
- Ozonucleolysis (Cervical / Thoracic / Lumbar)
- Trigeminal / Sphenopalatine / Glossopharyngeal RF / Chemical Blocks
- Stellate Ganglion Sympathectomy (RF/Chemical)
- Celiac Plexus / Splanchnic / Superior Hypogastric / Impar Blocks (RF/Chemical)
- Lumbar / Thoracic / T2, T3 Sympathectomy (RF / Chemical)
- Intrathecal / Epidural Catheter & Pumps, SCS & Lead Placement
- Carpal Tunnel / Suprascapular / Lat. Cut N of Thigh / Inguinal Nerves Blocks
- SI Joint Block & RF Denervation
- Shoulder, Knee & Joint Blocks
- Paravertebral & Psoas Compartment Block
- Piriformis & other Somatic Musculoskeletal Injections & other procedures of your choice / interest

Our dedicated team of spine surgery consists of orthopedic spine surgeons, neuro surgeons, neuro physicians and physiotherapists form a comprehensive group. Spine Surgery deals with spectrum of disorder related to vertebral column and spinal cord



### Non Operative World Class Treatments For Spine

Back pain is one of the most common health problems prevalent among a large number of people. Continuously sitting for long hours, lack of exercise and unhealthy working habits are some of the most common causes of back pain. Typically, back pain is treated with simple medications or exercises. It is only when all this fails and quality of life is severely affected that the doctors recommend spine surgery to treat severe and prolonged back pain condition. Usually, doctors recommend surgery as a treatment option for spinal problems after several months of all other treatment, which fail to provide any relief to the patient's back problem. There are different kinds of spinal surgeries that the doctors may recommend after thoroughly assessing your health condition.

### Some Of The Common Neck & Back Conditions Which Are Treated Non- Operatively Are

- Sciatica
- Cervical & Lumbar disc prolapsed
- Cervical & Lumbar spondylosis
- Spondylosis / Hiscs
- Sacroiliac Arthritis
- Lumbago
- Vertigo ..Etc
- Spinal stenosis
- Degenerative Disc Disease
- Facet Arthropathy



## Conditions treated by our Spine Surgery team include

- Slipped disc/herniated disc
- Spinal stenosis
- Scoliosis/kyphosis
- Sciatica
- Spondylolisthesis
- Degenerative disc disease
- Traumatic disorders
- Phylogenic infections or Tuberculosis(most common) or any other
- Various tumors affect spine, Benign / Malignant
- Previously operated / failed back surgery

Emergency spine traumas

Complex spinal deformity corrections - Scoliosis , Kyphosis & kyphoscoliosis

## Degenerative spinal disorders -

### Spinal disc surgeries

- Lumbar & Cervical
- Spinal stenosis surgeries - Lumbar & Cervical
- Interbody Fusions
- Minimally invasive spine surgeries
- Vertebroplasty & Kyphoplasty
- Minimal Access Spine Technologies (MAST)
- Dynamic stabilisation
- Osteoporotic fractures
- Navigation guided spine surgeries
- Pain management services

## Our spine Department In Hospital offers state of Art Operating Theater facility which Includes :

I suite Operating Theaters - We designed our operating Theaters to Create Optimal Operating Environment for surgeons, staff and patients as its efficiencies make positive Impact on patient care.

OPMI VARIO 700 CARL ZIESS operating microscope - This world class Operative Microscope is used for good three Dimensional visualization of fine structures with simultaneous illumination and magnification of operating field for improving spine surgery manifolds.

We always strive to perform spine surgeries in Minimal Invasive way.

Spinal Cord Neuromonitoring system: Neuromonitoring is most exciting innovations to come into spine surgery. Think of it, what surgeon would dare operate without blood gas monitoring? Or blood pressure monitoring? So why operate without nerve monitoring? It's an important technological advancement to safe guard spinalcord functions during critical spine surgeries like scoliosis and kyphosis corrections.

Emergency spine traumas

Complex spinal deformity corrections -

Scoliosis, Kyphosis & kyphoscoliosis

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