KIMS ACADEMY OF NEUROSCIENCES

KIMS | INSTITUTE OF NEURO SCIENCES



FUNCTIONAL NEUROSURGERY FELLOWSHIP

Comprehensive Mastery: Epilepsy, Movement Disorders, Pain & Spasticity

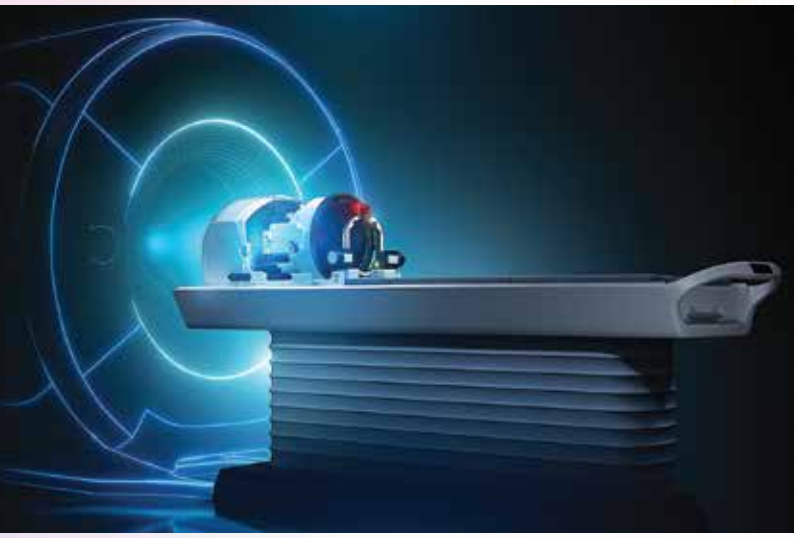
Who Should Attend: Neurosurgeons (Post-Residency/Early Career) seeking immersive experience and active learning opportunities in advanced Functional Neurosurgery techniques under expert mentorship.

Location: KIMS Hospitals, Secunderabad, Hyderabad, India.

Core Curriculum

Clinical Foundations

- **Epilepsy:** Semiologic analysis, prolonged Video-EEG interpretation, PET/SPECT analysis, multidisciplinary case conference for decision making
- **Movement Disorders:** Basic phenomenology, daily OPD decision-making, UPDRS assessment (ON/OFF states), DBS vs. MRgFUS selection strategy and DBS programming
- **Pain & Spasticity:** Patient selection criteria for ablative vs. neuromodulatory procedures



Surgical Mastery

Epilepsy (Core Focus):
Pre-surgical planning, Temporal Lobe Epilepsy (ATL, AH, SAH), Lesionectomy, Disconnection Procedures (Hemispherotomy, Callosotomy), Lobectomy (Frontal, Parietal, Occipital), SEEG for MRI-Negative Epilepsy, SEEG-guided resection and RF lesioning.

Movement Disorders (DBS & MRgFUS):
Stereotactic frame application, preoperative planning, awake & asleep DBS, MRgFUS thalamotomy, Radiofrequency (RF) pallidotomy/thalamotomy.

Pain Management:
MRgFUS ablation, RF ablation procedures.

Spasticity & Trauma:
DREZotomy (Dorsal Root Entry Zone lesioning), Intrathecal Baclofen Pump placement, Spinal Cord Stimulation for pain and traumatic paraplegia.

Selection Criteria & Requirements

Standard Requirements

- MCh/DNB in Neurosurgery (or international equivalent) from a recognized institution
- Valid medical registration to practice in India (for hands-on components)

Track-Specific Preferences

- Demonstrated interest in epilepsy or movement disorders through research or clinical rotations
- Basic understanding of EEG and stereotactic principles is highly preferred

Graduate Profile & Learning Outcomes

Fellows will be uniquely capable of building a comprehensive functional neurosurgery program, offering a full spectrum of surgical and incisionless solutions.

Technology Stack



Navigation & Planning

Medtronic StealthStation S8 & Brainlab Planning Station for planning and executing precise stereotactic trajectories.



Intra-op Imaging

Medtronic O-arm O2 for real-time 3D verification of electrode, probe, and SEEG bolt placement.



Stereotactic Systems

Leksell Vantage & CRW Stereotactic Frames for rigid, high-precision procedures (DBS, RF).



Incisionless Therapy

InSightec Exablate Neuro (MRgFUS) for thalamotomy and functional lesioning.



Gamma Knife

Gamma Knife is a no-cut, painless brain treatment that uses precise focused radiation. It targets tumors and lesions with surgical accuracy.



Surgical Visualization

Aesculap Aeos Exoscope & Microscopes for resective epilepsy surgery.



Diagnostics

Video-EEG, SEEG, Intraoperative ECoG, and RF Generators for lesioning.



AutoGuide

AutoGuide is a robotic guidance system for neurosurgery that ensures pinpoint accuracy. It helps surgeons perform safer, faster, and more precise procedures.

Faculty

- **Primary Mentor:**

  Dr. Manas Panigrahi, M.Ch., FACS
  Consultant Neurosurgeon
  Chair, Dept. of Neurosurgery
  Krishna Institute of Medical Sciences
  Ex Prof, Nizam's Institute Of Medical Sciences
  President, Cerebrovascular Scociety of India
  President Elect, Neurological Society of India
  President, Skullbase Surgery Society of India (2022-23)
  President, Neuroendoscopic Society of India (2021-22)
  Member, WFNS Education Committee
  Fellow, Skullbase and Cerebrovascular Surgery (WSU, USA)
  Hyderabad, India.

- **Supporting Faculty:**

  KIMS Neurosurgery Consultants.

Our Team of Neuroscience Surgeons



Dr. Manas Kumar Panigrahi
HOD & Sr. Consultant Neurosurgery



Dr. Sujit Kumar .V
Consultant Neuro & Spine Surgeon



Dr. R. Chandrasekhar Naidu
Consultant Neuro & Spine Surgeon



Dr. Swetha Pendyala
Consultant Neurosurgeon



Dr. Gopala Krishna Gorrepati
Consultant Neurosurgeon



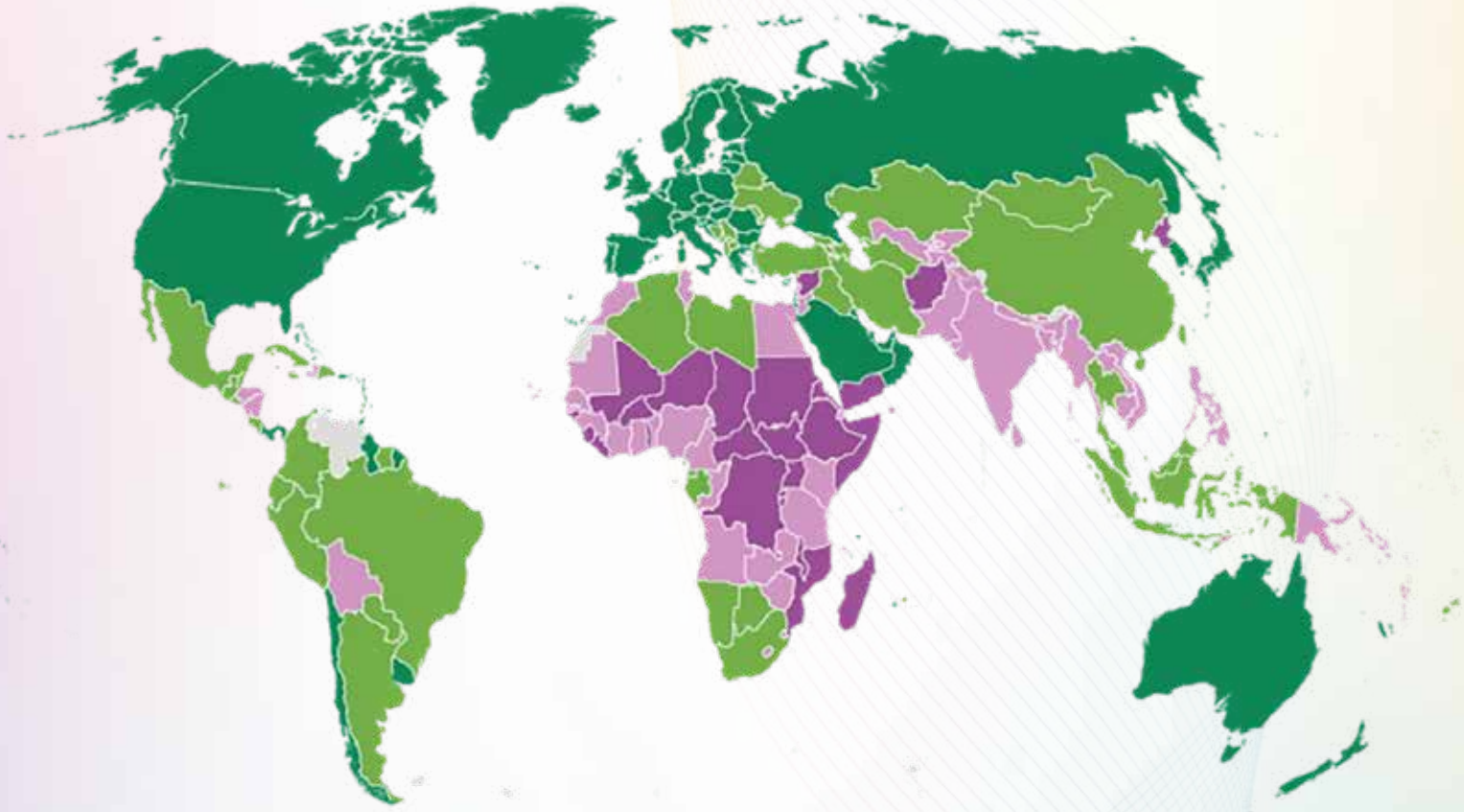
Dr. C.V.S. Dasaradhi
Consultant Neurosurgeon

General Terms & Conditions

- **Scope of Practice:** The 1-month/3-month fellowships offer "Observational" or "Hands-on Participation" tracks. All "Hands-on Participation" is strictly supervised, limited, and at the discretion of the Program Director and KIMS hospital policy. Fellows will not have independent surgical privileges
- **Fees & Stipend:**
  - All fellowship fees (1-Month, 3-Months) are non-refundable and must be paid in full prior to commencement
  - **No stipend** or remuneration is provided for the 1-Month and 3-Month fellowship tracks
  - The 1-Year Long-Term Fellowship provides a monthly stipend
- **Logistics & Accommodation:** All program fees exclude travel, visa, accommodation (lodging), and food. Fellows are responsible for their own arrangements. The program coordinator can provide a list of local, suggested options for lodging
- **Credentialing & Documentation:** All selected fellows (especially for hands-on tracks) must successfully complete the KIMS Hospital credentialing process, which includes submitting a CV, medical/neurosurgical degrees, and valid medical registration. KIMS reserves the right to deny participation based on this review
- **Confidentiality:** Fellows must sign a non-disclosure agreement and adhere strictly to all hospital policies regarding patient confidentiality and data privacy
- **Code of Conduct:** All fellows are expected to maintain the highest standards of professionalism and adhere to the KIMS Hospital code of conduct. The academy reserves the right to terminate any fellowship without a refund for misconduct or non-compliance
- **Certificate:** A certificate of completion is awarded only upon the satisfactory completion of the fellowship, based on attendance and faculty evaluation

The Observership Built for all

Gain hands-on experience and a global clinical perspective through our observership program, designed to foster collaboration and offer equitable access across countries of all income levels, with fee structures aligned to each income category (High, Upper Middle, Lower Middle, and Low Income).



Income Level High Income | Upper-middle Income | Lower-middle Income | Low Income

Program Options

Choose the intensity and duration that fits your career goals.

High Income (Full Fee)

1 Month
Intensive Exposure

OBSERVATIONAL
₹90,000

HANDS-ON PARTICIPATION
₹1,20,000

Includes ₹30,000 registration fee (non-discountable).

3 Months
Extended Clinical Rotation

OBSERVATIONAL
₹1,50,000

HANDS-ON PARTICIPATION
₹1,80,000

Includes ₹30,000 registration fee (non-discountable).

1 Year
Full Clinical Immersion

Stipend Provided
(~$1200 USD) / Month

Upper Middle Income (25% Off)

1 Month
Intensive Exposure

OBSERVATIONAL
~~₹90,000~~ **₹67,500**

HANDS-ON PARTICIPATION
~~₹1,20,000~~ **₹97,500**

Includes ₹30,000 registration fee (non-discountable).

3 Months
Extended Clinical Rotation

OBSERVATIONAL
~~₹1,50,000~~ **₹1,12,500**

HANDS-ON PARTICIPATION
~~₹1,80,000~~ **₹1,42,500**

Includes ₹30,000 registration fee (non-discountable).

1 Year
Full Clinical Immersion

Stipend Provided
(~$1200 USD) / Month

Lower Middle Income (50% Off)

1 Month
Intensive Exposure

OBSERVATIONAL
~~₹90,000~~ **₹45,000**

HANDS-ON PARTICIPATION
~~₹1,20,000~~ **₹75,000**

Includes ₹30,000 registration fee (non-discountable).

3 Months
Extended Clinical Rotation

OBSERVATIONAL
~~₹1,50,000~~ **₹75,000**

HANDS-ON PARTICIPATION
~~₹1,80,000~~ **₹1,05,000**

Includes ₹30,000 registration fee (non-discountable).

1 Year
Full Clinical Immersion

Stipend Provided
(~$1200 USD) / Month

Low Income (50% Off)

1 Month
Intensive Exposure

OBSERVATIONAL
~~₹90,000~~ **₹45,000**

HANDS-ON PARTICIPATION
~~₹1,20,000~~ **₹75,000**

Includes ₹30,000 registration fee (non-discountable).

3 Months
Extended Clinical Rotation

OBSERVATIONAL
~~₹1,50,000~~ **₹75,000**

HANDS-ON PARTICIPATION
~~₹1,80,000~~ **₹1,05,000**

Includes ₹30,000 registration fee (non-discountable).

1 Year
Full Clinical Immersion

Stipend Provided
(~$1200 USD) / Month

This fee includes the program tuition and the mandatory licensing/credentialing processing required for program participation.

Application & Inquiries

Limited positions available. Selection is based on qualifications, experience, and suitability for the program.

- **To Apply:** Please email your detailed Curriculum Vitae (CV) to: **manasp1966@gmail.com**
- **Email Subject Line:** Application for Functional Neurosurgery Fellowship Training
- **Further Information:** **paresh.d@kimshospitals.com | +91 97032 05290**



KIMS HOSPITALS™

Krishna Institute of Medical Sciences Ltd.
1-8-31/1, Minister Road, Secunderabad - 500 003. Telangana.