

FELLOWSHIP IN NEURO INTERVENTIONAL RADIOLOGY

ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a “Deemed to be University under Distinct (Existing) Category,” the university offers multidisciplinary programs across medical, dental, nursing, pharmaceutical sciences, and allied health sciences. The institution emphasizes academic excellence, clinical expertise, innovation, and global collaboration in advancing healthcare education.

PROGRAM OVERVIEW

The Fellowship in Neuro Interventional Radiology is a one-year advanced program designed to train healthcare professionals in minimally invasive, image-guided diagnosis and treatment of neurovascular conditions.

The program focuses on:

- Neurovascular imaging including cerebral angiography, CT, and MRI
- Endovascular treatment of stroke and acute ischemic conditions
- Management of cerebral aneurysms and arteriovenous malformations (AVMs)
- Catheter-based neuro-interventional procedures including thrombectomy
- Treatment of carotid artery disease and intracranial stenosis
- Patient safety, radiation protection, and ethical clinical practice

The program integrates clinical training, advanced imaging, procedural expertise, and research to ensure comprehensive competency in neuro interventional radiology.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform advanced neurovascular imaging and diagnosis.
 2. Conduct endovascular procedures for stroke and neurovascular diseases.
 3. Manage aneurysms, AVMs, and intracranial vascular conditions.
 4. Apply catheter-based neuro-interventional techniques.
 5. Ensure patient safety and radiation protection.
 6. Address ethical considerations in neuro-interventional care.
 7. Conduct research in neuro interventional radiology.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Perform neurovascular interventional procedures.
2. **Imaging Skills:** Utilize cerebral angiography and advanced imaging techniques.
3. **Stroke Management:** Manage acute ischemic stroke using thrombectomy.
4. **Procedural Skills:** Perform coiling, stenting, and embolization.
5. **Neurovascular Expertise:** Manage aneurysms, AVMs, and vascular malformations.
6. **Safety Awareness:** Ensure radiation safety and patient care standards.
7. **Research Orientation:** Contribute to advancements in neuro interventional radiology.

COURSE OUTCOMES (COS)

- CO1: Perform neuro interventional procedures independently.
- CO2: Apply neuroimaging techniques for diagnosis and treatment.
- CO3: Manage acute stroke and neurovascular emergencies.
- CO4: Perform procedures for aneurysms and AVMs.
- CO5: Integrate clinical and procedural decision-making.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuro interventional radiology.
2. Apply advanced neuroimaging and procedural techniques.
3. Integrate multidisciplinary approaches in neurovascular care.

PROGRAM DETAILS

- Certificate Awarded by: Malla Reddy Vishwavidyapeeth
- Program Duration: One-Year Fellowship
- Mode of Delivery: Clinical + Theoretical + Hands-on Training

ELIGIBILITY CRITERIA

- Academic Qualification: MD in Radiology / Neurology / Neurosurgery or equivalent
- Professional Requirement: As per institutional norms

KEY FEATURES

- Advanced training in neuro interventional radiology
- Hands-on exposure to endovascular neuro procedures
- Training in stroke management and neurovascular interventions

- Focus on minimally invasive brain and vascular therapies
 - Emphasis on patient safety and radiation protection
 - Evidence-based and technology-driven practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neurovascular diseases and interventions
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COGNITIVE SKILLS

- Clinical decision-making in neurovascular and stroke management
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PRACTICAL & PROFESSIONAL SKILLS

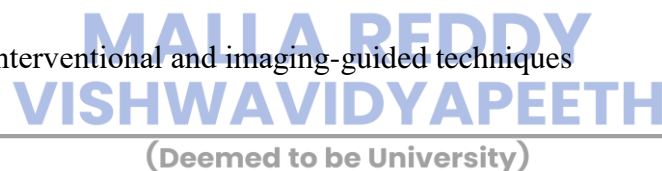
- Proficiency in thrombectomy, coiling, and stenting
 - Hands-on experience in neuro-interventional procedures
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TRANSFERABLE SKILLS

- Communication and multidisciplinary collaboration
 - Patient-centered neurological care
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SUBJECT-SPECIFIC SKILLS

- Advanced neuro interventional and imaging-guided techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF NEURO INTERVENTIONAL RADIOLOGY

- Introduction to Neuro Interventional Radiology
 - Neurovascular Imaging Techniques
 - Stroke and Acute Ischemic Stroke Management
 - Aneurysms and Arteriovenous Malformations (AVMs)
 - Carotid Artery Disease and Vertebrobasilar Insufficiency
 - Clinical Rotations
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SEMESTER 2: ADVANCED NEURO INTERVENTIONS

- Endovascular Treatment of Intracranial Aneurysms
- Neurovascular Malformations and Tumors

- Intracranial Stenosis and Carotid Interventions
 - Spinal Interventions
 - Ethical Considerations and Patient Safety
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Thrombectomy, coiling, and stenting procedures
 - Neuroimaging interpretation and planning
 - Management of aneurysms and AVMs
 - Clinical case discussions and decision-making
 - Patient safety and radiation protocols
 - Documentation and clinical logbook
 - Research and dissertation work
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CAREER OUTCOMES

Graduates can pursue careers as:

- Neuro Interventional Radiologist
- Endovascular Neurospecialist
- Stroke Intervention Specialist
- Neurovascular Consultant
- Academic and Research Professional



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