

FELLOWSHIP IN VASCULAR NEUROSURGERY

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 Vascular Neurosurgery is a specialized program designed to develop expertise in the diagnosis and surgical management of cerebrovascular disorders.

The program focuses on:

- Intracranial aneurysms and vascular malformations
- Arteriovenous malformations (AVMs) and fistulas
- Stroke and cerebrovascular emergencies
- Microsurgical and endovascular techniques
- Cerebral bypass and revascularization procedures
- Neurovascular imaging and diagnostics

The program integrates clinical exposure, surgical training, and advanced neurovascular techniques to ensure comprehensive expertise in vascular neurosurgery.

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PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage cerebrovascular disorders effectively.
 2. Perform advanced vascular neurosurgical procedures.
 3. Apply microsurgical and endovascular techniques.
 4. Deliver patient-centered and evidence-based care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage aneurysms, AVMs, and stroke conditions.
2. **Surgical Skills:** Perform vascular neurosurgical procedures.

3. **Advanced Techniques:** Apply microsurgical and endovascular approaches.
 4. **Diagnostic Skills:** Interpret neurovascular imaging effectively.
 5. **Decision-Making Skills:** Handle complex neurovascular cases.
 6. **Research Orientation:** Contribute to advancements in vascular neurosurgery.
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COURSE OUTCOMES (COS)

- **CO1:** Understand cerebrovascular anatomy and pathology.
 - **CO2:** Diagnose aneurysms and vascular malformations.
 - **CO3:** Perform microsurgical and vascular procedures.
 - **CO4:** Manage stroke and emergency conditions.
 - **CO5:** Apply imaging and interventional techniques.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in vascular neurosurgery.
 2. Apply advanced surgical and interventional techniques.
 3. Integrate clinical, imaging, and surgical approaches.
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PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
 - **Program Duration:** One-Year Fellowship
 - **Mode of Delivery:** Clinical Training + Surgical Exposure + Theoretical Learning
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ELIGIBILITY CRITERIA

- **Academic Qualification:** M.Ch/DNB in Neurosurgery or equivalent
 - **Professional Requirement:** As per institutional norms
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KEY FEATURES

- Advanced training in vascular neurosurgery
 - Hands-on exposure to aneurysm and AVM surgeries
 - Training in microsurgical and endovascular techniques
 - Focus on stroke and cerebrovascular care
 - Evidence-based neurosurgical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cerebrovascular disorders
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COGNITIVE SKILLS

- Clinical decision-making in neurovascular cases
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in vascular neurosurgical procedures
 - Hands-on experience in OT and neuro ICU
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TRANSFERABLE SKILLS

- Patient counseling and multidisciplinary coordination
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SUBJECT-SPECIFIC SKILLS

- Advanced microsurgical and neurovascular techniques
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CURRICULUM MODULES – THEORY

- Cerebrovascular Anatomy & Physiology
 - Intracranial Aneurysms
 - Arteriovenous Malformations (AVMs)
 - Stroke Management
 - Microsurgical Techniques
 - Endovascular Neurosurgery
 - Cerebral Revascularization
 - Neurovascular Imaging
 - Advances in Vascular Neurosurgery
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PRACTICAL COURSEWORK

- Aneurysm clipping and vascular procedures
- AVM and fistula management
- Stroke and emergency case handling
- Neurovascular imaging interpretation
- ICU and postoperative care
- Clinical case discussions and research

CAREER OUTCOMES

Graduates can pursue careers as:

- Vascular Neurosurgeon
- Neurovascular Specialist
- Stroke Specialist
- Consultant in Neuro Care Centers
- Academic and Research Professional



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