

FELLOWSHIP IN NEURO INTENSIVE CARE

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 Intensive Care is a specialized program designed to develop expertise in the management of critically ill patients with neurological and neurosurgical conditions in intensive care settings.

The program focuses on:

- Neurocritical care principles
- Management of stroke and brain injuries
- Intracranial pressure (ICP) monitoring and control
- Neuro-monitoring techniques
- Mechanical ventilation in neurological patients
- Post-operative neurosurgical ICU care

The program integrates **ICU-based clinical training, simulation, and hands-on procedures**, ensuring advanced competency in neuro intensive care.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide comprehensive care to critically ill neurological patients.
 2. Apply advanced neurocritical care and monitoring techniques.
 3. Manage intracranial pressure and cerebral perfusion.
 4. Deliver evidence-based and patient-centered ICU care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage critically ill neurological and neurosurgical patients.

2. **Monitoring Skills:** Apply advanced neuro-monitoring and ICP management techniques.
 3. **Critical Care Skills:** Manage stroke, trauma, and neuro-emergencies in ICU.
 4. **Ventilatory Support:** Manage respiratory failure in neurological patients.
 5. **Post-Operative Care:** Provide ICU care following neurosurgical procedures.
 6. **Multidisciplinary Approach:** Collaborate with neurologists and neurosurgeons.
 7. **Evidence-Based Practice:** Apply updated neurocritical care guidelines.
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COURSE OUTCOMES (COS)

- **CO1:** Understand principles of neuro intensive care.
 - **CO2:** Manage critically ill neurological patients.
 - **CO3:** Apply ICP monitoring and neurocritical care techniques.
 - **CO4:** Perform ICU procedures and interventions.
 - **CO5:** Ensure comprehensive patient care and recovery.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuro ICU management.
 2. Apply advanced neuro-monitoring and life support techniques.
 3. Integrate multidisciplinary approaches in neurocritical care.
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PROGRAM DETAILS

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

- **Academic Qualification:** MBBS with MD/DNB in Neurology / Critical Care / Anaesthesia / General Medicine or related specialties
 - **Professional Requirement:** As per institutional norms
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KEY FEATURES

- Specialized training in neuro intensive care
- Hands-on exposure in neuro ICU settings
- Training in ICP monitoring and neurocritical care

- Focus on stroke, trauma, and neurological emergencies
 - Exposure to post-operative neurosurgical care
 - Integration of neurology and critical care practices
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neurocritical care principles.
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COGNITIVE SKILLS

- Clinical decision-making in neuro ICU settings.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in neuro ICU procedures and monitoring.
 - Hands-on experience in neuro ICU environments.
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TRANSFERABLE SKILLS

- Team coordination in critical care environments.
 - Communication with patients' families and healthcare teams.
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SUBJECT-SPECIFIC SKILLS

- Advanced neuro-monitoring and ICU management techniques.
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CURRICULUM MODULES – THEORY

- Principles of Neuro Intensive Care
 - Stroke and Neurovascular Emergencies
 - Intracranial Pressure Monitoring
 - Neuro-Monitoring Techniques
 - Mechanical Ventilation in Neuro Patients
 - Brain Trauma and Critical Care
 - Post-Neurosurgical ICU Care
 - Seizure and Epilepsy Management
 - Infection Control in Neuro ICU
 - Advances in Neurocritical Care
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PRACTICAL COURSEWORK

- Clinical training in neuro ICU units
 - Management of stroke and neuro-emergencies
 - ICP monitoring and neurocritical care procedures
 - Mechanical ventilation and airway management
 - Post-operative neurosurgical care
 - Patient evaluation and ICU care planning
 - Case documentation and clinical discussions
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CAREER OUTCOMES

Graduates of the Fellowship in Neuro Intensive Care can pursue careers as:

- Neuro Intensivist
- Critical Care Specialist (Neuro ICU)
- ICU Consultant (Neurological Care)
- Emergency and Neurocritical Care Physician
- Clinical Practitioner in Tertiary Care Hospitals
- Academic and Research Roles in Neurocritical Care

