

## FELLOWSHIP IN NEURO ONCO SURGERY

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### 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.

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### PROGRAM OVERVIEW

The Fellowship in Neuro Onco Surgery is a specialized program designed to develop expertise in the surgical management of brain and spinal tumors.

The program focuses on:

- Primary brain tumors and spinal cord tumors
- Metastatic brain lesions
- Skull base tumors and complex neuro-oncology cases
- Microsurgical and minimally invasive neurosurgical techniques
- Neuro-navigation and image-guided surgery
- Multidisciplinary neuro-oncology care

The program integrates clinical exposure, hands-on surgical training, and advanced technologies to ensure comprehensive expertise in neuro-oncological surgery.

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform neuro-oncological surgeries effectively.
  2. Manage brain and spinal tumors comprehensively.
  3. Apply advanced microsurgical and minimally invasive techniques.
  4. Deliver patient-centered and evidence-based care.
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### PROGRAM OUTCOMES (POS)

1. **Surgical Expertise:** Perform brain and spinal tumor surgeries with precision.
2. **Clinical Knowledge:** Manage primary and metastatic CNS tumors.
3. **Advanced Techniques:** Apply microsurgical and image-guided approaches.
4. **Patient Care:** Ensure optimal perioperative and postoperative management.
5. **Decision-Making Skills:** Handle complex neuro-oncology cases.
6. **Research Orientation:** Contribute to advancements in neuro-oncology.

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#### COURSE OUTCOMES (COS)

- **CO1:** Understand neuro-oncology and tumor biology.
- **CO2:** Perform brain and spinal tumor surgeries.
- **CO3:** Apply microsurgical and minimally invasive techniques.
- **CO4:** Manage complications and postoperative care.
- **CO5:** Integrate multidisciplinary cancer treatment approaches.

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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuro-oncology surgery.
2. Apply advanced surgical and diagnostic 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 neuro-oncology surgery
- Hands-on exposure to brain and spinal tumor surgeries
- Training in microsurgical and image-guided techniques

- Focus on multidisciplinary cancer care
  - Evidence-based neurosurgical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neuro-oncological disorders
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### COGNITIVE SKILLS

- Clinical decision-making in neuro-oncology
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in neuro-oncological surgical 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 neuro-oncological surgical and imaging techniques
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## CURRICULUM MODULES – THEORY

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- Neuro-Oncology Basics
  - Brain Tumors
  - Spinal Tumors
  - Metastatic CNS Lesions
  - Skull Base Tumors
  - Microsurgical Techniques
  - Neuro-navigation & Imaging
  - Perioperative Care
  - Advances in Neuro-Oncology
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## PRACTICAL COURSEWORK

- Brain and spinal tumor surgeries
- Microsurgical and minimally invasive techniques

- Image-guided surgical procedures
  - ICU and postoperative care
  - Multidisciplinary case discussions
  - Research and documentation
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## CAREER OUTCOMES

Graduates can pursue careers as:

- Neuro Onco Surgeon
- Neurosurgeon (Oncology Specialist)
- Consultant in Neuro & Cancer Centers
- Academic and Research Professional



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