

FELLOWSHIP IN TRANSPLANT ANAESTHESIA

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 Transplant Anaesthesia is a specialized program designed to develop expertise in anaesthetic management for organ transplant surgeries and critically ill transplant patients.

The program focuses on:

- Principles of transplant anaesthesia
- Liver, kidney, and heart transplant procedures
- Perioperative management of transplant recipients
- Advanced haemodynamic monitoring and fluid management
- Immunosuppression and infection control considerations
- Critical care in transplant patients

The program integrates **clinical exposure, ICU training, and hands-on anaesthesia practice**, ensuring comprehensive expertise in transplant anaesthesia.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide safe anaesthesia for organ transplant surgeries.
 2. Manage complex haemodynamic and metabolic conditions.
 3. Apply perioperative care strategies in transplant patients.
 4. Deliver evidence-based and patient-centered care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage anaesthesia for liver, kidney, and cardiac transplant surgeries.
 2. **Monitoring Skills:** Apply advanced haemodynamic monitoring and fluid management techniques.
 3. **Critical Care Skills:** Manage ICU care for transplant patients.
 4. **Perioperative Care:** Address complications related to organ failure and transplantation.
 5. **Infection Control:** Manage immunosuppression and infection risks.
 6. **Multidisciplinary Approach:** Collaborate with transplant surgeons and critical care teams.
 7. **Evidence-Based Practice:** Apply updated guidelines in transplant anaesthesia.
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COURSE OUTCOMES (COS)

- **CO1:** Understand principles of transplant anaesthesia.
 - **CO2:** Perform anaesthetic management in transplant surgeries.
 - **CO3:** Apply haemodynamic monitoring and fluid management techniques.
 - **CO4:** Manage critical care in transplant patients.
 - **CO5:** Ensure safe perioperative outcomes.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in transplant anaesthesia techniques.
 2. Apply advanced monitoring and ICU care effectively.
 3. Integrate multidisciplinary approaches in transplant patient care.
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PROGRAM DETAILS

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

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

- Specialized training in transplant anaesthesia
 - Hands-on exposure to liver, kidney, and cardiac transplant procedures
 - Training in advanced haemodynamic and fluid management
 - Focus on perioperative and ICU care in transplant patients
 - Exposure to immunosuppression and infection control
 - Integration of anaesthesia with transplant surgery and critical care
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of transplant anaesthesia and organ physiology.
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COGNITIVE SKILLS

- Clinical decision-making in complex transplant cases.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in transplant anaesthesia and monitoring techniques.
 - Hands-on experience in OT and ICU settings.
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TRANSFERABLE SKILLS

- Team coordination in multidisciplinary transplant teams.
 - Clinical documentation and patient management.
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SUBJECT-SPECIFIC SKILLS

- Advanced transplant anaesthesia and critical care techniques.
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CURRICULUM MODULES – THEORY

- Principles of Transplant Anaesthesia
- Anaesthesia for Liver Transplantation
- Anaesthesia for Renal Transplantation
- Anaesthesia for Cardiac Transplantation
- Haemodynamic Monitoring and Fluid Management
- Immunosuppression and Infection Control
- Critical Care in Transplant Patients
- Organ Preservation and Donor Management
- Complications and Risk Management
- Advances in Transplant Anaesthesia

PRACTICAL COURSEWORK

- Clinical training in transplant OT and ICU
- Anaesthesia management for transplant surgeries
- Advanced haemodynamic monitoring techniques
- Fluid and electrolyte management
- Post-operative ICU care and ventilatory support
- Patient evaluation and perioperative planning
- Case documentation and clinical evaluation

CAREER OUTCOMES

Graduates of the Fellowship in Transplant Anaesthesia can pursue careers as:

- Transplant Anaesthesiologist
- Critical Care Specialist (Transplant ICU)
- Clinical Practitioner in Tertiary Care Hospitals
- Organ Transplant Program Specialist
- Academic and Research Roles in Anaesthesia

