

## FELLOWSHIP IN CLINICAL NEPHROLOGY

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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 in medical, dental, nursing, pharmaceutical sciences, engineering, and allied health sciences. The institution emphasizes academic excellence, clinical proficiency, innovation, and global collaborations, contributing significantly to advanced healthcare education and training.

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### PROGRAM OVERVIEW

The Fellowship in Clinical Nephrology is a specialized clinical program designed to develop expertise in the diagnosis, management, and prevention of kidney-related disorders. The program focuses on:

- Renal anatomy and physiology
- Acute and chronic kidney diseases
- Glomerular and tubular disorders
- Electrolyte and acid-base imbalances
- Dialysis (hemodialysis and peritoneal dialysis)
- Hypertension and renal complications

The program integrates **theoretical learning, clinical exposure, and hands-on training**, ensuring competency in nephrology care.

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage kidney diseases effectively.
  2. Apply dialysis and renal replacement therapies.
  3. Manage electrolyte and metabolic disturbances.
  4. Deliver evidence-based nephrology care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and manage acute and chronic kidney diseases.
2. **Dialysis Proficiency:** Perform and manage hemodialysis and peritoneal dialysis.
3. **Metabolic Management:** Manage electrolyte and acid-base disorders.

4. **Hypertension Control:** Address renal causes of hypertension and related complications.
5. **Multidisciplinary Care:** Collaborate with urologists, intensivists, and healthcare teams.
6. **Preventive Care:** Implement strategies to prevent progression of kidney disease.
7. **Evidence-Based Practice:** Apply clinical guidelines and research in nephrology.

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#### COURSE OUTCOMES (COS)

- **CO1:** Understand renal physiology and pathophysiology.
- **CO2:** Diagnose and manage kidney diseases effectively.
- **CO3:** Apply dialysis techniques and renal replacement therapy.
- **CO4:** Manage electrolyte and metabolic disturbances.
- **CO5:** Provide preventive and long-term care for kidney disease patients.

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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in diagnosis and management of renal disorders.
2. Apply dialysis and renal replacement therapies effectively.
3. Integrate multidisciplinary approaches in nephrology care.

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#### PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
- **Program Duration:** One-Year Fellowship
- **Mode of Delivery:** Hybrid (Clinical Training + Theoretical Learning + Hands-on Practice)

(Deemed to be University)

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#### ELIGIBILITY CRITERIA

- **Academic Qualification:** MD/DNB in General Medicine
- **Professional Requirement:** As per institutional and regulatory guidelines

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#### KEY FEATURES

- Specialized training in nephrology and kidney care
- Hands-on clinical exposure in nephrology units and dialysis centers
- Training in hemodialysis and peritoneal dialysis
- Focus on electrolyte and metabolic disorders

- Integration of nephrology with critical care and internal medicine
  - Exposure to chronic kidney disease management
  - Evidence-based clinical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of renal diseases and treatment strategies.
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### COGNITIVE SKILLS

- Clinical reasoning and decision-making in nephrology.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in renal diagnosis, dialysis procedures, and patient management.
  - Hands-on experience in nephrology clinical settings.
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### TRANSFERABLE SKILLS

- Patient counseling and communication regarding kidney health.
  - Clinical documentation and reporting.
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### SUBJECT-SPECIFIC SKILLS

- Integrated management of kidney diseases using multidisciplinary approaches.
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## CURRICULUM MODULES – THEORY

- Renal Anatomy and Physiology
  - Acute and Chronic Kidney Diseases
  - Glomerular and Tubular Disorders
  - Electrolyte and Acid-Base Imbalances
  - Dialysis and Renal Replacement Therapy
  - Hypertension and Renal Disorders
  - Diabetic Nephropathy
  - Renal Imaging and Diagnostic Techniques
  - Critical Care Nephrology
  - Advances in Nephrology
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## PRACTICAL COURSEWORK

- Clinical training in nephrology departments and dialysis units
- Diagnosis and management of kidney diseases
- Hemodialysis and peritoneal dialysis procedures
- Management of electrolyte and metabolic disorders
- Patient monitoring and long-term care planning
- Case documentation and clinical evaluation
- Interdisciplinary patient care

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## CAREER OUTCOMES

Graduates of the Fellowship in Clinical Nephrology can pursue careers as:

- Clinical Nephrologist
- Dialysis Unit Specialist
- Consultant in Nephrology Departments
- Critical Care Nephrology Specialist
- Clinical Practitioner in Multispecialty Hospitals
- Academic and Research Roles in Nephrology

