

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES
(Deemed to be University under section 3 of the UGC Act 1956)

Ph.D ADMISSION TEST (MR-PAT)

Ph.D. in Periodontology

Module 1: Etiology of Periodontal disease

- 1.1 Periodontal Pathogenesis
- 1.2 Biofilm and Periodontal Microbiology
- 1.3 Microbial Interactions with the host in periodontal diseases.
- 1.4 The Role of Dental Calculus and other predisposing factors

Module 2: Oral Implantology

- 2.1 Biological aspects of Implants
- 2.2 Surgical concepts of Implant Therapy
- 2.3 Perimplant disease and management
- 2.4 Supportive implant treatment

Module 3: Multidisciplinary approach for the management of periodontal diseases.

- 3.1 Diagnosis and Management of Endodontic – Periodontic lesions
- 3.2 Periodontal –Restorative Interrelationships.
- 3.3 Adjunctive role of Orthodontic therapy.

Module 4: Surgical Treatment

- 4.1 Periodontal Therapy
- 4.2 The Periodontal Flap
- 4.3 Periodontal Regeneration and Reconstructive Surgery
- 4.4 Furcation Involvement and Treatment
- 4.5 Periodontal Plastic and esthetic surgery.
- 4.6 Advances in Periodontal Surgical procedures (Microsurgery and Laser)

Module 5: Nonsurgical Treatment

- 5.1 Antiinfective Therapy
- 5.2 Host Modulation
- 5.3 Breath malodor
- 5.4 Plaque Biofilm control

Module 6: Diagnosis, Prognosis and Treatment plan

- 6.1 Determination of Prognosis
- 6.2 Rationale for Periodontal Treatment and treatment plan

Module 7: Diagnosis and treatment of Periodontal Emergencies

- 7.1 Treatment of Acute Gingival Disease
- 7.2 Treatment of Periodontal abscess.

Module 8: Periodontal Pathology

- 8.1: Periodontal response to external forces.
- 8.2: Bone loss and Patterns of Bone destruction
- 8.3: Chronic Periodontitis and Necrotizing Ulcerative Periodontitis
- 8.4: Desquamative Gingivitis.

- 8.5 The Periodontal Pocket
- 8.6 Abscesses of the Periodontium
- 8.7 Acute Gingival Infections
- 8.8 Gingival Enlargement

Suggested Readings:

1. Newman and Carranza's clinical Periodontology – 13th Edition Publisher Saunder.
2. Lindhe's Clinical Periodontology and Implant Dentistry. Volume I-II 7th Edition, Publisher Blackwell Munksgaard
3. Misch's Contemporary Implant Dentistry, 4th Edition Publisher Mosby
4. Periodontology 4th Edition -Publisher Springer
5. Newman and Carranza's Clinical Periodontology and Implantology, Edition 14, Publisher Elsevier