

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 Oral Pathology, Microbiology and Forensic Odontology

Module 1: Developmental Disturbances of Oral and Paraoral Structures

- 1.1 Development disturbances of Jaws and Oral Mucosa
- 1.2 Development disturbances of lips, palate and Hereditary Intestinal Polyposis syndrome
- 1.3 Development disturbances of Gingiva and Tongue
- 1.4 Development disturbances of Oral Lymphoid tissues and Salivary Glands
- 1.5 Development disturbances in Size of teeth
- 1.6 Development disturbances in shape of teeth
- 1.7 Development disturbances in number of teeth

Module 2: Benign and Malignant tumors of the Oral Cavity

- 2.1 Benign tumors of Epithelial Origin
- 2.2 Malignant tumors of Epithelial Origin
- 2.3 Benign tumors of Connective tissue Origin
- 2.4 Malignant tumors of Connective tissue Origin
- 2.5 Benign tumors of Muscle tissue Origin
- 2.6 Malignant tumors of Muscle tissue Origin
- 2.7 Benign tumors of Nerve tissue Origin
- 2.8 Malignant tumors of Nerve tissue Origin
- 2.9 Premalignant Disorders of oral cavity

Module 3: Tumors of Salivary Glands

- 3.1 Benign tumors of Salivary Glands
- 3.2 Malignant tumors of Salivary Glands
- 3.3 Undifferentiated Carcinoma and other Carcinomas
- 3.4 Non-Epithelial Tumors
- 3.5 Malignant Lymphomas
- 3.6 Tumor like Lesions
- 3.7 Salivary Gland Cysts

Module 4: Cysts of Orofacial Region

- 4.1 Odontogenic Cysts (Developmental and Inflammatory)
- 4.2 Non-Odontogenic Cysts (Developmental and Inflammatory)

Module 5: Odontogenic Tumors

- 5.1 Epithelial Odontogenic tumors
- 5.2 Mixed Odontogenic Tumors with or without hard tissue formation
- 5.3 Mesenchymal Odontogenic tumors
- 5.4 Odontogenic Carcinomas
- 5.5 Odontogenic Sarcomas

Module 6: Diseases of Pulp and Periapical Tissues

- 6.1 Diseases of Dental Pulp
- 6.2 Diseases of Periapical Tissues

Module 7: Bacterial Infections of Oral Cavity

- 7.1 Tuberculosis
- 7.2 Leprosy
- 7.3 Actinomycosis
- 7.4 Syphilis
- 7.5 Gonorrhea
- 7.6 Noma
- 7.7 Scarlet Fever
- 7.8 Diphtheria
- 7.9 Botryomycosis
- 7.10 Cat-scratch Disease

Module 8: Viral Infections of Oral Cavity

- 8.1 Measles
- 8.2 Mumps
- 8.3 Herpes simplex
- 8.4 Herpes zoster
- 8.5 HIV
- 8.6 Chikungunya
- 8.7 Herpangina
- 8.10 Rubella
- 8.11 Molluscum Contagiosum
- 8.12 Condyloma acuminatum
- 8.13 Chicken pox
- 8.14 Cytomegalic Inclusion disease
- 8.15 Corona Virus

Module 9: Mycotic Infections of Oral Cavity

- 9.1 Candidiasis
- 9.2 Mucormycosis
- 9.3 Histoplasmosis
- 9.4 Blastomycosis
- 9.5 Coccidioidomycosis
- 9.6 Rhinosporidiosis
- 9.7 Cysticercosis

Module 10: Bone and Joint Diseases

- 10.1 Diseases of bone involving maxilla and mandible
- 10.2 Diseases of TMJ

Module 11: Skin Diseases

- 11.1 Ectodermal Dysplasia
- 11.2 White Sponge Nevus
- 11.3 Hereditary benign intraepithelial dyskeratosis
- 11.4 Dyskeratosis congenita
- 11.5 Xeroderma pigmentosum
- 11.6 Ehlers-Danlos Syndrome
- 11.7 Mucocutaneous lymph node syndrome
- 11.8 Focal dermal hypoplasia syndrome
- 11.9 Oral lichen planus
- 11.10 Lichenoid reaction
- 11.11 Pemphigus
- 11.12 Cicatricial Pemphigoid
- 11.13 Bullous Pemphigoid

- 11.14 Epidermolysis Bullosa
- 11.15 Erythema multiforme
- 11.16 Systemic Lupus Erythematosus
- 11.17 Systemic Sclerosis
- 11.18 Psoriasis
- 11.19 Acanthosis nigricans
- 11.20 Pityriasis rosea
- 11.21 Dermatitis herpetiformis
- 11.22 Solar elastosis
- 11.23 Graft-versus-host diseases

Module 12: Forensic Odontology

- 12.1 Personal Identification
- 12.2 Dental Identification Procedures
- 12.3 Identification in Disasters
- 12.4 Identification from dental DNA
- 12.5 Palatal rugae in identification
- 12.6 Reconstructive dental identification
- 12.7 Dental profiling
- 12.8 Crime Investigation

Suggested Readings:

1. Shafer, Hine & Levy - A Textbook of Oral Pathology. R. Rajendran, B. Sivapathasundharam (Editors, based on original work by Shafer, Hine & Levy). Elsevier, 7th Edition (2012); 9th Edition (2020) is the latest.

2. Regezi & Sciubba - Oral Pathology: Clinical Pathologic Correlations. Joseph A. Regezi, James J. Sciubba, Richard C. K. Jordan. Elsevier. 7th Edition (2016); 8th Edition (2022) is the latest.

3. Soames & Southam - Oral Pathology. J. V. Soames, J. C. Southam. Oxford University Press. 4th Edition (2005); this is the latest edition.

4. Prabhu, Wilson, Johnson & Daftary - Oral Pathology in the Tropics. S. R. Prabhu, P. H. Wilson, N. W. Johnson, D. K. Daftary. Oxford University Press. 1992.

5. Neville, Damm, Allen, Bouquot - Oral and Maxillofacial Pathology. Brad W. Neville, Douglas D. Damm, Carl M. Allen, Angela C. Chi. 5th Edition (2022) is the latest.