

**DR.M.G.R EDUCATIONAL & RESEARCH INSTITUTE UNIVERSITY
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

Subject Code:	Subject Name : Oral Medicine & Radiology	T / L/ ETL	L	T/ S.Lr	P/ R
	Prerequisite:	T			

L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits
T/L/ETL : Theory/Lab/Embedded Theory and Lab.

OBJECTIVE:

- Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management
- Should have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Should have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- Have adequate knowledge about radiation health hazards, radiations safety and protection.
- Competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation
- Should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law

SKILLS:

- (1) Definition and importance of Diagnosis and various types of diagnosis
- (2) Method of clinical examinations-General Physical examination by inspection-Oro-facial region by inspection, palpation and other means.To train the students about the importance, role, use of saliva and techniques of diagnosis of saliva as part of oral disease,Examination of lesions like swellings, ulcers, erosions, sinus, fistula, growths, pigmented lesions, white and red patches, Examination of lymph nodes, Forensic examination – Procedures for post-mortem dental examination; maintaining dental records and their use in dental practice and post-mortem identification; jurisprudence and ethics.
- (3) Investigations-Biopsy and exfoliative cytology, Hematological, Microbiological and other tests and investigations necessary for diagnosis and prognosis.

COURSE OUTCOMES (COs) : (3- 5)

CO1	To diagnose the common diseases of oral-facial region by clinical examination with specific management of temporomandibular disorders and its pain mechanism.
CO2	To train the students about the importance, role, use and techniques of radiographs/digital radiograph and other imaging methods in diagnosis of orofacial diseases and deformities pertaining to all dental specialties.
CO3	To understand the principles of the clinical and radiographic aspects of Forensic Odontology
CO4	To Emphasis on oral manifestations of systemic diseases, ill-effects of oral sepsis on general health and dental considerations in the management of medically compromised patients along with evidence based medical management of oro-facial disease.
CO5	To understand the Knowledge of oro-facial pain, various diagnostic tools in pulp and periapical pathology and strategies to control post-operative pain essential for practice of Dentistry.

Mapping of Course Outcomes with Program Outcomes (POs)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	H	H	H	H	H	M	H	H	M	H	H
CO2	H	H	H	H	H	H	M	H	H	M	H	H
CO3	H	H	H	H	H	H	M	H	H	M	H	H
CO4	H	H	H	H	H	H	M	H	H	M	H	H
CO5	H	H	H	H	H	H	M	H	H	M	H	H
COs /PSOs	PSO1	PSO2	PSO3	PSO4								
CO1	H	M	H	H								
CO2	H	M	H	H								
CO3	H	M	H	H								
CO4	H	M	H	H								
CO5	H	M	H	H								

H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low									
Category	Basic Sciences	Medical and Allied Health Science	Humanities and Social Sciences	Program Core	Program Electives	Open Electives	Practical / Project	Internships / Technical Skill	Soft Skills
				✓					
Approval									

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UNIT1: Introduction, Infections of oral and paraoral structures:

Bacterial: Streptococcal, tuberculosis, syphilis, Vincents, leprosy, actinomycosis, diphtheria and

Tetanus-Fungal: Candida albicans-virus: Herpes simplex, herpes zoster, Ramsay Hunt syndrome, measles, herpangina, mumps, infectious mononucleosis, AIDS and hepatitis-B

UNIT 2 Important common mucosal lesions: White lesions: Chemical burns, leukoedema, leukoplakia, Fordyce spots, stomatitis nicotina-palatinus, white sponge nevus, candidiasis, lichen planus, discoid lupus erythematosus. Vesiculo-bullous lesions: Herpes simplex, herpes zoster, herpangina, bullous lichen planus, pemphigus, cicatricial pemphigoid-erythema multiforme.-Ulcers: Acute and chronic ulcers-Pigmented lesions: Exogenous and endogenous-Red lesions: Erythroplakia, stomatitis venenata and medicamentosa, erosive lesions and denture sore mouth.

UNIT 3: Cervico-facial lymphadenopathy

UNIT 4: Facial pain: Organic pain-Pain arising from the diseases of orofacial tissues-Pain arising due to C.N.S. diseases- Pain due to intracranial and extracranial -cranial nerves-Multiple sclerosis, cerebrovascular diseases, Trotter's syndrome etc- Neuralgic pain due to unknown causes: Trigeminal neuralgia, glossopharyngeal neuralgia, sphenopalatine ganglion neuralgia, periodic migrainous neuralgia and atypical facial pain-Referred pain: Pain arising from distant tissues like heart, spine etc.,

UNIT 5: Altered sensations: Cacogeusia, halitosis

UNIT 6: Tongue in local and systemic disorders: Aglossia, ankyloglossia, bifid tongue, fissured tongue, scrotal tongue, macroglossia, microglossia, geographic tongue, median rhomboid glossitis, depapillation of tongue, hairy tongue, atrophic tongue, reactive lymphoid hyperplasia, glossodynia, glossopyrosis, ulcers, white and red patches.

UNIT 7: Oral manifestations -Metabolic disorders: Porphyria-Haemochromatosis- Histiocytosis X diseases- Endocrine disorders- Pituitary: Gigantism, acromegaly, hypopituitarism- Adrenal cortex: Addison's disease (Hypofuntion)

Cushing's syndrome-Parathyroid glands: Hyperparathyroidism-Thyroid gland: (Hypothyroidism) Cretinism, myxedema-Pancreas: Diabetes-Nutritional deficiency: Vitamins: riboflavin, nicotinic acid, folic acid Vitamin B12, Vitamin C -Blood disorders-Red blood cell diseases-Deficiency anemias-Haemolytic anemias-Polycythemia-White Blood cell diseases-Neutropenia, cyclic neutropenia, agranulocytosis, infectious mononucleosis and leukemias-Haemorrhagic disorders-Thrombocytopenia, purpura, hemophilia, Christmas disease and von Willebrand's disease

UNIT 8: Disease of salivary glands-Developmental disturbances: Aplasia, atresia and aberration-Functional disturbances: Xerostomia, ptyalism-Inflammatory conditions: Nonspecific sialadenitis, mumps, sarcoidosis Heerfort's syndrome-Necrotising sialometaplasia-Cysts and tumors: Mucocele, ranula, pleomorphic adenoma, mucoepidermoid carcinoma-Miscellaneous: Sialolithiasis, Sjogren's syndrome, Mikulicz's disease and sialosis

UNIT 9: Dermatological diseases with oral manifestations-Ectodermal dysplasia-Hyperkeratosis palmarplantaris with periodontopathy -Scleroderma-Lichen planus including Ginspan's syndrome-Lupus erythematosus - Pemphigus-Erythema multiforme -Psoriasis.

UNIT 10: Immunological diseases with oral manifestations -Leukemia-Lymphomas -Multiple myeloma - AIDS clinical manifestations-opportunistic infections, neoplasms -Thrombocytopenia-Lupus erythematosus -Scleroderma-dermatomyositis -Submucous fibrosis- Rheumatoid arthritis -Recurrent oral ulcerations-including Behcet's syndrome and Reiter's syndrome

UNIT 11: Allergy: Local allergic reactions, anaphylaxis, serum sickness

12: Foci of oral infection and their ill effects on general health

UNIT 13: Management of dental problems in medically compromised persons-Physiological changes: Puberty, pregnancy-menopause-The patients suffering with cardiac, respiratory, liver, kidney and bleeding disorders-hypertension, diabetes and AIDS-Post-irradiated patients.

UNIT 14 : Precancerous lesions and conditions

UNIT 15: Nerve and muscle diseases:Nerves- Neuropraxia -Neurotmesis –Neuritis-Facial nerve paralysis including Bell's

palsy, Heerfordt's syndrome, Melkerson Rosenthal syndrome and ramsay hunt syndrome-Neuroma - Neurofibromatosis -Frey's syndrome-Myositis ossificans-Myofascial pain dysfunction syndrome-Trismus

UNIT 16: Forensic odontology: Medicolegal aspects of orofacial injuries-Identification of bite marks-Determination of age sex- Identification of cadavers by dental appliances, Restorations and tissue remnants.

UNIT 17 : Therapeutics: General therapeutic measures – drugs commonly used in oral medicine viz., antibiotics, chemotherapeutic agents, anti-inflammatory and analgesic drugs, astringents, mouth washes, styptics, demulcents, local surface anaesthetic, sialogogues, antisialogogues and drugs used in the treatment of malignancy

TOTAL HOURS: lecture-65, clinicals-170

RECOMMENDED BOOKS:

a) Oral Diagnosis, Oral Medicine & Oral Pathology

1. Burkit – Oral Medicine – J.B. Lippincott Company
2. Coleman – Principles of Oral Diagnosis – Mosby Year Book
3. Jones – Oral Manifestations of Systemic Diseases – W.B. Saunders company
4. Mitchell – Oral Diagnosis & Oral Medicine
5. Kerr – Oral Diagnosis
6. Miller – Oral Diagnosis & Treatment
7. Hutchinson – clinical Methods
8. Oral Pathology – Shafers
9. Sonis.S.T., Fazio.R.C. and Fang.L - Principles and practice of Oral Medicine

b) Oral Radiology

1. White & Goaz – Oral Radiology – Mosby year Book
2. Weahrman – Dental Radiology – C.V. Mosby Company
3. Stafne – Oral Roentgenographic Diagnosis – W.B.Saunders Co.,

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