

3.3.2 SYLLABUS (Including Teaching Hours.)

MUST KNOW 109 HRS

- 1 Developmental Disturbances of oral and paraoral structures 03 HRS
Developmental disturbances of hard tissues:
 - dental arch relations,
 - disturbances related to -
 - size,shape,number and structure of teeth,
 - disturbances related to eruption and shedding.Developmental disturbances of soft tissues: Lip,palate,oral mucosa,gingival,tongue and salivary glands
Craniofacial anomalies
- 2 Benign and Malignant tumors of oral cavity 25 HRS
Potentially Malignant Disorders of epithelial tissue origin.
 - Definitions and nomenclature
 - Epithelial dysplasia
 - Lesions and conditions:leukoplakia, erythroplakia,oral lichen planus and oral submucous fibrosis.Benign tumors of epithelial tissue origin.
 - Squamous papilloma, Oral nevi.Malignant tumors of epithelial tissue origin.
 - Oral squamous cell carcinoma: Definition and nomenclature,etiopathogenesis, TNM staging ,Broder's and Bryne's grading systems.
 - Verrucous carcinoma
 - Basal cell carcinoma: Definition etiopathogenesis and histopathology
 - Malignant melanoma: Definition etiopathogenesis and histopathologyBenign and malignant tumors of connective tissue
 - Fibroblast origin:oral fibromas and fibromatosis,peripheral ossifying fibroma peripheral giant cell granuloma, pyogenic granuloma and Fibrosarcoma
 - Adipose tissue origin:Lipoma
 - Endothelial origin(blood and lymphatics: Hemangiomas and lymphangiomas, Hereditary hemorrhagic telangiactasia, Kaposi's sarcomaBone and cartilage: Chondroma,osteoma,osteoid osteoma, benign osteoblastoma, osteosarcoma, torus palatinus and mandibularis
 - Muscle tissue origin:
Leiomyoma.Rhabdomyoma,rhabdomyosarcoma.
 - Nerve tissue origin:Traumatic neuroma, neurilemmoma, neurofibroma
 - Lymphomas: Definition, classification, differences between Hodgkins and Non-Hodgkins lymphoma and Burkitts lymphoma
- 3 Tumors of salivary glands 05 HRS
 - Histogenesis
 - Classification.
 - Benign tumors: pleomorphic adenoma,Warthin tumor,myoepithelioma
 - Malignant tumors: mucoepidermoid carcinoma,adenoid cystic carcinoma,polymorphous low grade adenocarcinoma
- 4 Non-neoplastic diseases of salivary glands 04 HRS
 - Xerostomia, Sjogren syndrome, Mickuliz syndrome, Sialadenosis, necrotizing sialometaplasia, mucocele and sialolithiasis

- 5 Odontogenic and Non-Odontogenic cysts 08 HRS
 -Definition
 -Classification
 -Lesions: Keraocystic odontogenic tumor, dentigerous cyst, calcifying odontogenic cyst, radicular cyst and dental lamina cyst of new born and eruption cysts.
 Non-Odontogenic cysts: Solitary bone cyst and aneurismal bone cyst
- 6 Odontogenic tumors 09 HRS
 -Definition
 -Classification
 -Lesions: Ameloblastoma, Squamous odontogenic tumour, Calcifying epithelial odontogenic tumour, - Ameloblastic fibroma, fibrodentinoma, Ameloblastic fibrodentinoma, Ameloblastic fibro-odontoma, Complex odontoma, Compound odontoma, Ameloblastic carcinoma and malignant ameloblastoma.
 -Odontogenic fibroma (simple and WHOtype), Odontogenic myxoma or myxofibroma, Benign cementoblastoma
- 7 Bacterial infections of oral cavity 02 HRS
 -Tuberculosis, Syphilis, Diphtheria, Noma, Leprosy, Actinomycosis, Tetanus.
- 8 Viral infections of oral cavity 04 HRS
 -Herpes simplex, Herpes zoster, Measles, Rubella, Herpangina, Mumps, Chicken pox, Molluscum contagiosum and Oral manifestations of HIV infection.
- 9 Mycotic infections of oral cavity 02 HRS
 -Candidiasis, South American Blastomycosis, North American Blastomycosis, Mucormycosis
- 10 Diseases of the periodontium 04 HRS
 -Classification
 -Etiopathogenesis
 -Lesions: Gingivitis, ANUG, Gingival enlargement, desquamative gingivitis, Chronic and aggressive periodontitis.
 - Trauma from occlusion
- 11 Dental caries 05 HRS
 -Definition
 -Classification
 -Etiopathogenesis, Theories, microbiology of dental caries, histopathology of enamel, dentinal and cemental caries.
- 12 Diseases of pulp and periapical tissue 04 HRS
 -Definition
 -Classification
 -Lesions: acute pulpitis, chronic pulpitis, chronic hyperplastic pulpitis, pulp abscess, pulp necrosis, pulp fibrosis, periapical granuloma, periapical abscess, periapical cyst
 -Sequale of pulpitis.
 - Osteomyelitis: Definition, classification, etiopathogenesis,
 -Types: Acute and chronic suppurative Osteomyelitis, Garre's Osteomyelitis
- 13 Spread of oral infection 02 HRS
 - Focus of infection

- Focal infection
 - Routes of spread of infection
 - Space infections: cellulitis, space infections, Ludwig's angina, Maxillary sinusitis,
- 14 Physical and chemical injuries to the oral tissues 02 HRS
 - Traumatic cyst, bruxism, tooth ankylosis, linea alba, traumatic ulcerations of oral mucosa (eosinophilic granuloma), denture sore mouth, epulis fissuratum, mucocele, ranula, sialolithiasis, radiation effects of oral and paraoral tissues-osteoradionecrosis
 - Plumbism, mercury poisoning, argyria, effects of tetracycline
 - 15 Regressive alterations of the teeth 02 HRS
 - Attrition, abrasion and erosion
 - sclerotic dentin, dead tracts, secondary dentin, pulp calcification, resorption of teeth, hypercementosis, cementicles
 - 16 Healing of oral wounds 03 HRS
 - Factors affecting wound healing
 - Complications
 - Healing of wounds: gingivectomy, biopsy, extraction and fracture),
 - Biopsy techniques, exfoliative cytology
 - 17 Oral aspects of metabolic diseases 03 HRS
 - Classification
 - Disturbances of mineral metabolism: calcium and phosphorus-osteoporosis, rickets. Fluoride and fluorosis.
 - Disturbances of protein metabolism: marasmus and Kwashiorkor
 - Amyloidosis
 - Avitaminosis: vitamin A, D, K, C and B-complex
 - Disturbances of hormonal metabolism: Hypo and hyper pituitarism, Addison's disease, hypo and hyper parathyroidism, diabetes mellitus
 - 18 Allergic and immunologic diseases of the oral cavity 03 HRS
 - Definition and nomenclature
 - Lesions: recurrent aphthous stomatitis, reiter's syndrome, Behcet's syndrome, contact dermatitis and stomatitis, sarcoidosis
 - 19 Diseases of bone and joints 05 HRS
 - Osteogenesis imperfecta, fibrous dysplasia, cherubism, cleidocranial dysplasia, Down's syndrome, Paget's disease, Cementoblastoma
 - Hyper and hypo parathyroidism, rickets
 - Developmental disturbances of TMJ,: ankylosis, rheumatoid arthritis, osteoarthritis
 - 20 Diseases of blood and blood forming organs 04 HRS
 - RBC diseases:
 - Anemias: iron deficiency anemia and Plummer-Vinson syndrome, pernicious anemia and megaloblastic anemia, thalassemia, sickle cell anemia, aplastic anemia, erythroblastosis foetalis and polycythemia vera.
 - WBC diseases: agranulocytosis, cyclic neutropenia, leukocytosis and leucopenia, infectious mononucleosis, leukemias
 - Platelet and coagulation diseases: Purpura, thrombocytopenia, hemophilia, von Willebrand's disease

- 21 Diseases of the skin 06 HRS
 -Ectodermal dysplasia, oral lichen planus, psoriasis, erythema multiforme, pemphigus pemphigoid (bullous, cicatricial), epidermolysis bullosa, Lupus erythematosus, systemic sclerosis, Dyskeratosis congenita,
- 22 Diseases of nerves and muscles 02 HRS
 -Trigeminal neuralgia, auriculotemporal syndrome, Bell's palsy, burning mouth syndrome, glossodynia and glossopyrosis, migraine
 -Classification of diseases of muscles, myasthenia gravis, myositis ossificans
- 23 Forensic odontology 02 HRS
 -Definitions and nomenclature
 -Personal identification
 -Dental identification
 -Palatal rugae patterns
 -Age estimation,
 -Bite marks: classification, appearance, investigations, analysis, comparison and conclusion
 -Lip prints.

DESIRABLE TO KNOW:

40HRS

- 1 Developmental disturbances of oral lymphoid tissue & Fissural(inclusion)cysts of oral region- lateral periodontal cyst,residual cyst, glandular odontogenic cyst, cysts of maxillary antrum and cysts of soft tissues. 03 HRS
- 2 Benign And Malignant Tumors Of Oral Cavity 05 HRS
 - Squamous acanthoma, Keratoacanthoma,
 -Angiomyoma, leiomyosarcoma
 -MEN syndrome, malignant nerve tumors, granular cell tumor,
 -Different histological grading systems,
 -Histological variants and molecular biology of squamous cell carcinoma
 -Histological variants
 -Clarks and Breslow system
 -Giant cell fibroma, myofibroma, fibromatosis, benign and malignant fibrous histiocyoma.
 - Lipoblastoma
 - Liposarcoma-Vascular malformations, sturge weber syndrome, angiofibroma. hemangioendothelioma, hemangiopericytoma.
 - Chondroblastoma and Ewing's sarcoma and other variants of lymphomas
- 3 Oncocytoma, Ductal Papillomas, Cyst Adenomas, Other Malignant Tumors Oncocytosis. 04 HRS
- 4 Odontoameloblastoma, odontogenic carcinomas, odontogenic sarcomas 04 HRS.

5	Infections Of Oral Cavity Botromycosis, Tularemia, Melioidisis, Gonorrhea, Rhinoscleroma, Cat-Scratch disease -Rhinosporidiasis, Cryptococcosis, Coccidioidomycosis, Sporotrichosis	06 HRS
4	Deposits On Teeth(Stains,Plaque And Calculus), Periodontal Abscess, Pericoronitis	01 HRS
5	Caries Activity Tests, Immunology Of Dental Caries, Caries Vaccine, Methods Of Caries Control	02 HRS
6	Aerodontolgia,Condensing Osteitis,Chronic Diffuse Sclerosing Osteomyelitis, Florid Osseous Dysplasia, Sclerotic Cemental Masses	01 HR
7	Cavernous Sinus Thrombosis, Mechanism And Significance of oral Foci of Infection	01 HRS
8	Reactions To Preparation Of Teeth For Restorative Procedures, High Speed Instrumentation For Cavity And Crown Preparation, Restorative Materials, Direct Adhesive And Non-Adhesive Restorations, Indirect Restorations, Bacteria At Tooth Restoration Interface And Microleakage. -Effects of orthodontic tooth movement and burns. -Non-allergic local reactions to drugs and chemicals -Effects of cancer chemotherapeutic agents.	02 HRS
9	Abfraction, Reticular Atrophy Of The Pulp - Replantation and transplantation of teeth - Implants and osseointegrated implants	01 HRS
10	Disturbances Of Mineral Metabolism(Trace Elements) -Porphyria -Lysosomal storage diseases - Disturbances of carbohydrate metabolism:mucopolysaccharidosis -Vitamin E -Progeria	01 HRS
11	Chronic Granulomatius Disease. Midline Lethal Granuloma, Uveoparotid Fever, Wegeners Granulomatosis,Angioedema	01 HRS
12	Craniofacial Dysostosis, Mandibulofacial Dysostosis, Pierre-Robin's Syndrome, Apert Syndrome -Luxation and subluxation, TMJ syndrome, Langerhans cell histiocytosis, eosinophilic granuloma and Hand-Schuller-Christian disease	02 HRS
13	Chediak –Higasi Syndrome, Thrombasthenia, Parahemophilia	01 HRS

- 14 Keratosis Follicularis, White Sponge Nevus, Acanthosis Nigricans, Paraneoplastic Pemphigus, Hailey-Hailey Disease, Ehlers –Danlos Syndrome, Goltz’s Syndrome
02HRS
- 15 Sphenopalatine Neuralgia, Miscellaneous Disturbances of Nerves And Muscles 01HRS
- 16 Identification In Disasters, Identification From Dental DNA, Dental Profiling, Sex Identification From Craniofacial Morphology And Dimensions And By DNA Analysis 02HRS

3.3.3 EXAMINATION PATTERN

Name of the exercise	Time allotted	Marks
i) Identification of slides (10): 5 marks each	50 minutes	80
ii) Identification of specimens(6): 5 marks each		
2. Journal	-	10
Total		90