

SYLLABUS FOR Ph.D IN ORAL MEDICINE & RADIOLOGY

I. Basic Subjects

- Applied Anatomy of the face, Neck region, Oral Cavity, Nasal Cavity, Oro-Pharynx, paranasal sinuses and Temporomandibular joint
- Development of face, palate, nasal septum and nasal cavity, para-nasal sinuses, tooth in detail and the age changes, salivary glands, Congenital anomalies of face & Pharyngeal apparatus
- Physiology: Muscle nerve physiology, blood, respiratory system, cardio-vascular system, excretory system, endocrine system, central nervous system, special senses
- Carbohydrate, lipid, & protein Metabolism
- Chemotherapeutics and antibiotics, Analgesics and anti-pyretic & drug Interaction
- Role of complement system in acute inflammation
- Role of arachidonic acid and its metabolites in acute inflammation
- Growth factors in acute inflammation
- Anaphylaxis, Type II Hypersensitivity, Type III Hypersensitivity
- Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock, circulatory disturbances, ischemic hyperemia, venous congestion, edema, infarction
- Immunity and immunizing agents, Auto-immunity & Bacteriology, Parasitology, Virology & mycology applicable to Head & Neck region

II. Oral Radiology

- Radiation physics, Radiation biology. Radiation safety and protection.
- Projection geometry. X-ray films, intensifying screen and grids.
- Radiographic quality assessment and infection control
- Intra-oral radiograph, Extra-oral radiography
- Basic Principle of Digital imaging,

- Computed Tomography, Scintigraphy, Ultrasonography & M.R.I & their application in imaging of head & Neck soft-tissue , maxillofacial skeleton & salivary glands

Imaging interpretation of odontogenic & non-odontogenic tumours, malignant tumours, Hamartomatous & endocrinal bony lesions, Developmental & genetic disorder of maxillofacial skeleton & Neck

III. Oral Medicine

- Ulcerative and vesiculobullous lesions.
- Potentially Malignant lesions & conditions of oral mucosa
- Oral cancer, Pigmentation of oral tissues,
- Orofacial pain, TMJ disorders, Salivary gland disorders, Acquired & congenital diseases of teeth
- Systemic diseases and their dental considerations Cardiovascular, Respiratory, Gastrointestinal, Renal, Red blood cell diseases, White Blood cell diseases, Platelet Disorder, Autoimmune Disorder, Endocrinal Disorder, Nutritional deficiency
- STD and HIV infections and AIDS
- Forensic odontology

BOOKS RECCOMENDED

- LYNCH, M.A BURKET'S ORAL MEDICINE: DIAGNOSIS AND TREATMENT 10th , 11th & 12th
- BELL, W.E. OROFACIAL PAINS CLASSIFICATION DIAGNOSIS MANAGEMEN
- WHITE, S.C. & PHARAOH, M.J.ORAL RADIOLOGY: PRINCIPLES AND INTERPRETATION 5th & 6th EDITION.
- NORMAN K. WOOD AND PAUL W. GOAZ: DIFFERENTIAL DIAGNOSIS OF ORAL AND MAXILLOFACIAL LSIONS. 5TH ED. HARCOURT BRACE AND COMPANY ASIA PTE LTD. 1998
- SHAFER WG, HINE MK, LEVY BM: A TEXTBOOK OF ORAL PATHOLOGY; 1993, 4TH

EDI, W B SAUNDERS COMPANY, PHILADELPHIA : 674

- BRAD D. NEVILLE ET AL : ORAL AND MAXILLOFACIAL PATHOLOGY. 2^N ED. PHILADELPHIA. W.B. SAUNDERS CO. 2002.
- WHAITES, E. ESSENTIALS OF DENTAL RADIOGRAPHY AND RADIOLOGY 3RD