	STUDY GUIDE
PROGRAM	BDS
COURSE TITLE	ORAL PATHOLOGY
ACADEMIC YEAR	3 <sup>rd</sup> Year
INTRODUCTION	"According to the American Dental Association: "Oral pathology is the
	specialty of dentistry and discipline of pathology that deals with the
	nature, identification, and management of diseases affecting the oral and
	maxillofacial regions." In other words, oral pathology is the science that
	understands the causes and effects of these diseases. Common practices
	include clinical examinations, lab testing, and taking the whole body
	health and chemistry into consideration. *"
	Oral Pathology is important because it provides the dental clinician with
	the underlying basis of the condition so as to develop a focused
	management plan.
RATIONALE	This course will provide the students the basic understanding of
	pathologies of the orofacial region and enhance their clinical diagnostic
	skill based on the pathological information.
OUTCOMES	By the end of the course, students will be able to diagnose common
	dental conditions based on pathological information
DEPARTMENT	Oral Pathology
INVOLVED	
COURSE	By the end of the course, the students will be able to:
OBJECTIVES	DISTURBANCES IN NUMBER AND SIZE OF TEETH
	Discuss the clinical, radiographic features and syndromes
	associated with Anodontia, Hyperdontia, Hypodontia, Macrodontia
	and Microdontia
	DISTURBANCES IN FORM OF TEETH
	Define Gemination, Fusion, Concrescence, Dens invaginatus, Dens
	evaginatus, Enamel pearls, Taurodontism, Dilaceration,
	Supernumerary roots
	DISTURBANCES IN STRUCTURE OF TEETH

Discuss the etiology, types and clinical, radiological and histological
features of Amelogenesis Imperfecta, Dentinogenesis Imperfecta,
Dentine dysplasia, Hypercementosis, Pulp calcifications and Internal
and external resorptions
DISCOLORATION OF TEETH
<ul> <li>Explain the etiology and clinical features of exogenous and</li> </ul>
endogenous discolorations of teeth.
NON BACTERIAL LOSS OF TOOTH SUBSTANCES
• Discuss the etiological and clinical features of Attrition, Abrasion and
Erosion
• Discuss the clinical and histological features of internal and external
resorption.
DISORDERS OF ERUPTION AND SHEDDING OF TEETH
Describe the Premature eruption, Premature loss, Retarded
eruption, Persistence of deciduous teeth and Impaction of teeth
DENTAL CARIES
• Discuss the role of dental plaque, microorganisms, carbohydrates
and other variables in the development of dental caries.
Classify dental caries on the basis of site and rate of attack
<ul> <li>Describe the course and histopathogenesis of dental caries</li> </ul>
PULPITIS
Describe etiology of pulpitis.
Classify different types of pulpitis on the basis of clinical, histological
and radiographic findings.
Discuss Chronic hyperplastic pulpitis, Pulp Calcification and Pulp
Necrosis
SPREAD OF INFECTIONS
<ul> <li>Discuss the spread of infection, pathogenesis, and clinical,</li> </ul>
histopathological and radiographic features of the following
disorders/conditions:
- Acute and chronic periapical periodontitis
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- Periapical abscess
- Periapical granuloma
- Periapical cyst
- Osteomyelitis
- Cellulitis and Ludwig's angina
CYSTS OF THE JAWS
<ul> <li>Classify Odontogenic and non-odontogenic cysts of the jaws.</li> </ul>
Describe the origin of odontogenic and non-odontogenic cyst of
the jaws.
ODONTOGENIC CYSTS
Compare the clinical, radiographic and histological features, and
pathogenesis of the following odontogenic cysts:
- Periapical (radicular)
- Dentigerous and eruption
- Odontogenic keratocyst;
- Gingival
- Lateral periodontal
- Calcifying odontogenic
- Glandular odontogenic
NON ODONTOGENIC CYSTS
Compare the clinical, radiographic and histological features, and
pathogenesis of the following non-odontogenic cysts:
- Nasopalatine
- Nasolabial
- Median
- Globulomaxillary
NON EPITHELIAL/PSEUDOCYSTS
<ul> <li>Discuss the clinical, radiographic and histological features of</li> </ul>
Traumatic bone cyst, Stafne's bone cavity and Aneurysmal bone
cyst
ODONTOMES, ODONTOGENIC AND NON-ODONTOGENIC TUMORS
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	odontomes and odontogenic tumors.
Describe	e the etiology, pathogenesis, clinical, histological and
radiogra	aphic features of the following odontogenic tumors:
- A	meloblastoma
- S	quamous odontogenic tumors
- C	Calcifying epithelial odontogenic tumor
- A	denomatoid odontogenic tumor
- A	meloblastic fibroma
4 _	meloblastic fibro odontome
- C	Ddontoma
- C	)dontogenic fibroma;
- C	)dontogenic myxoma;
- C	Cementoblastoma
BACTERIAL INFE	ECTYIONS
Describe	e the etiology, clinical and histopathological features of
following	g bacterial infections:
- N	lecrotizing ulcerative gingivitis
م _	cute Necrotizing Ulcerative Gingivitis
- N	loma
4 -	ctinomycosis
- S	yphilis
- L	eprosy
- TI	uberculosis
- 0	Sonhrrhoea
VIRAL INFECTIO	<u>DNS</u>
Describe	e the etiology, clinical and histopathological features of
following	g Viral infections:
	erpetiic stomatitis
	Chickenpox and Herpes Zoster
	lerpangina
	land, foot and mouth disease

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- Infectious mononucleosis
- Measles
- Cytomegalovirus
FUNGAL INFECTIONS
Classify fungal infections
<ul> <li>Describe the etiology, clinical and histopathological features of</li> </ul>
following fungal infections:
<ul> <li>Candida species and opportunistic infections</li> </ul>
- Pseudomembranous candidosis
- Erythematous candidosis
- Chronic hyperplastic candidosis
- Candida-associated denture stomatitis
- Candida- associated and other forms of angular cheilitis
- Median rhomboid glossitis
- Chronic mucocutaneous candidoses and oral manifestations
of deep visceral mycoses
ULCERATIVE CONDITIONS
Classify oral ulcerations
Describe the clinical and histopathological features of aphthous
ulcers and behcet's syndrome.
VESICULLOBULLOUS CONDITIONS
Classify vesiculobullous diseases
Discuss the clinical, histopathological features of following
vesiculobullous diseases:
- Pemphigus vulgaris;
- Mucous membrane pemphigoid;
- Pemphigoid.
- Erythema multiforme.
- Dermatitis Herpetiformis
- Linear IgA disease
- Epidermolysis bullosa

- Epidermolysis bullosa acquisita
- Angina bullosa haemorrhagica
HEREDITARY WHITES LESIONS
Classify white lesion of oral mucosa according to their etiology.
<ul> <li>Explain the following hereditary white lesions:</li> </ul>
- Oral epithelial nevus
- Leukoedema
- Hereditary benign intraepithelial dyskeratosis
- Follicular keratosis
REACTIVE WHITE LESIONS
Describe Frictional hyperkeratosis, Nicotine stomatitis, Hairy
leukoplakia and Hairy tongue.
PRENEOPLASTIC WHITE LESIONS
• Discuss the etiology, pathogenesis, clinical features, histopathology
and prognosis of the following lesions:
- Leukoplakia;
- Oral Submucous fibrosis;
- Lichen planus;
- Lupus erythematosus;
- Actinic cheilitis.
NEOPLASTIC LESIONS
Define Carcinoma in situ
• Discuss the etiology, epidemiology, pathogenesis, clinical features,
histopathology and prognosis of squamous cell carcinoma.
Describe staging and grading of squamous cell carcinoma
<ul> <li>Describe the etiology, pathogenesis, clinical features,</li> </ul>
histopathology of basal cell carcinoma.
VASCULAR LESIONS
Describe the etiology, pathogenesis, clinical features, and
histopathology of congenital hemangioma.
<u>REACTIVE LESIONS</u>

<ul> <li>Discuss the etiology, pathogenesis, clinical features, and</li> </ul>
histopathology of the following reactive lesions:
- Pyogenic granuloma
- Peripheral giant cell granuloma
- Peripheral Fibroma
- Generalized Gingival Hyperplasia
- Denture Induced Fibrous Hyperplasia
FORDYCE'S GRANULES
Define Fordyce's Granules
List clinical features of fordyce's granules
SUBLINGUAL VARICES
Define Sublingual varices
GEOGRAPHIC TONGUE
Define Geographic tongue
Describe clinical, pathogenesis, and histological features of
geographic tongue
<u>CROHN'S DISEASE</u>
Define Crohn's Disease
Describe clinical, pathogenesis, and histological features of Crohn's
disease
SARCOIDOSIS
Define Sarcoidosis
<ul> <li>Describe clinical, pathogenesis, and histological features of</li> </ul>
Sarcoidosis
WEGENER'S GRANULOMATOSIS
<ul> <li>Define Wegener's Granulomatosis</li> </ul>
<ul> <li>Describe clinical, pathogenesis, and histological features of</li> </ul>
Wegener's Granulomatosis
AMYLOIDOSIS
Define Amyloidosis
Describe clinical features of Amyloidosis

ORAL PIGMENTATION
Classify oral pigmentation
<ul> <li>Describe the clinical and histological features of oral lesions caused</li> </ul>
by exogenous and endogenous pigmentation.
REACTIVE LESIONS OF SALIVARY GLAND
<ul> <li>Discuss the etiology, pathogenesis, clinical features and</li> </ul>
histopathology of the Mucous extravasation phenomenon, Mucus
retention cyst and Necrotizing sialometaplasia.
BACTERIAL AND VIRAL INFECTIONS OF SALIVARY GLAND
<ul> <li>Discuss the pathogenesis, clinical and diagnostic features of the</li> </ul>
following infections/condition of salivary glands:
- Mumps
- Bacterial sialadenitis
- Sarcoidosis
- Sjogren's syndrome
- Xerostomia
- Cytomegaloviral sialadenitis
SALIVARY GLAND TUMORS
Classify salivary gland tumors
<ul> <li>Discuss the pathogenesis and clinical and diagnostic features of the</li> </ul>
following salivary gland tumors:
- Pleomorphic adenoma;
- Warthin tumor;
- Basal cell adenoma;
- Oncocytoma;
- Canalicular adenoma;
- Mucoepidermoid carcinoma;
- Acinic cell carcinoma;
- Adenoid cystic carcinoma.
INHERITED AND DEVELOPMENTAL DISORDERS OF BONE
Classify disorders of bone

Discuss the etiology, clinical features and radiographic features of
Cherubism, Osteopetrosis and Cleidocranial dysplasia.
FIBRO-OSSEOUS LESIONS
Classify fibro-osseous lesions
<ul> <li>Describe the etiology, clinical features, pathogenesis and</li> </ul>
histological behavior of various fibro-osseous lesions.
METABOLIC AND ENDOCRINAL DISORDERS OF BONE
Discuss the etiology, pathogenesis, clinical, radiographic, and
histological features of following metabolic conditions/disorders:
- Paget's disease
- Hyperparathyroidism
- Hypothyroidism
- Hyperthyroidism
- Hypophosphastasia
CENTRAL GIANT CELL GRANULOMA
Discuss the etiology, pathogenesis, clinical, radiographic, and
histological features of central giant cell granuloma
TUMORS OF BONE
Classify bone tumors
<ul> <li>Discuss the etiology, pathogenesis, clinical and diagnostic features</li> </ul>
of the following bone tumors:
- Osteoma and osteoblastoma;
- Osteosarcoma;
- Ossifying fibroma.
DEVELOPMENTAL DISORDERS
Discuss Aplasia, Hyperplasia and Hypoplasia of mandibular condyle
INFLAMMATORY DISORDERS
<ul> <li>Describe Traumatic arthritis, Infective arthritis and rheumatoid</li> </ul>
arthritis
OSTEOARTHRITIS
Explain the etiology and clinical features of osteoarthritis

	FUNCTIONAL DISORDERS
	Discuss the etiology and clinical features of myofacial pain
	dysfunction syndrome and disc displacement.
INTERNAL	10% (Pre-professional Examination, Midterm Examination, Assignments and
ASSESSMENT	Class Presentations)
ANNUAL	90% (MCQS, OSPE)
EXAMINATION	

\*.https://www.granburydentalcenter.com/blog/hot-on-the-trail-with-oralpathology/#:~:text=According%20to%20the%20American%20Dental,that%20understands%20the%20ca uses%20and