

**MANSOURA UNIVERSITY
FACULTY OF DENTISTRY
ORAL PATHOLOGY DEPT**

THIRD YEAR

Course Director: Dr. Nadia M. Lotfy
Professor of Oral Pathology

Dr. Manal Mohamed Zyada
Associate Professor of Oral Pathology

Oral Pathology Department

Course Specification

GENERAL INFORMATION:

Course Title: Oral Pathology

Course Director: Dr. Manal Mohamed Zyada

Names of Instructors: Dr. Nadia M. Lotfy

Dr. Khayria A. EL-Kordy

Dr. Nadia A. EL-Sissy Dr. L[^]wahez EL-sayed Dr. Hala E.

Fikry Dr. Manal M. Zyada Prerequisite Course: Oral Biology & Immunology, Dental Morphology, General Histology,

General Pathology, Microbiology Starting Year: Third year

Ending Year: Third year Lecture/Week: two hours

Practical/Week: two hours

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Total National Hours: 60 hours COURSE DESCRIPTION

This course consists of three main components, list of common diseases of maxillofacial region and their pathogenesis; Description the clinical features, radiographic and the histologic findings of the most common lesions. Finally, propose the possible diagnostic and prognostic aids that will greatly influence clinical decision making.

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This module will raise awareness of the clinician to the large number of pathologic processes which may present themselves in both hard and soft tissues in clinical practice. The course is enhanced*by the study of the characteristics of each disease as the dental clinician would observe them in practice. Consequently, aetiology and pathogenesis; radiographic, histologic, and serologic findings; development of differential and definite diagnoses, and treatment are emphasized.

This course of study is critically important to your future as a practitioner. It prepares you to diagnose conditions of the oral cavity and its related structures. Also, will be able to develop a logical treatment plan for the prevention and treatment of oral conditions so that each patient can be maintained in or restored to a healthy functioning aesthetic

condition. It will be able you to understand and recognize the medical and socioeconomic problems which may influence or result from dental treatment. List the significance of these lesions with regard to the patient's general health and oral health

All of the lectures and laboratory work that you will receive have been designed to help you develop the knowledge, the skills and judgment necessary to achieve the goals of Oral Pathology Program.

COURSE GOALS AND OBJECTIVES

1. The primary objective of this course is to introduce the academic background and practical experience about:

a. Good selection of tissue specimens for pathological diagnosis on print' finger bases

b. Preparation and manipulation of pathological tissue specimens.

c. Mechanism by which the disease developed progressed and squealed.

d. Macroscopic & microscopic description of tissue changes during disease.

e. Different laboratory investigation specific to these diseases By the end of the course the student should be able to:

1 - Define different maxillofacial lesions.

2- Describe the clinical features of these lesions

3- List the sites affected by these lesions.

4- Describe the histologic findings of the most common lesions.

^S-- Discuss the importance of requesting a thorough examination when a diagnosis can not be reached easily. ^ U_t r> ^

76- To list a differential diagnosis.

7. Apply his knowledge to recognize maxillofacial lesions at particular risk.

8. Propose the possible diagnostic and prognostic aids that will greatly influence clinical decision making.

COURSE ORGANIZATION

There are two basic components to this course: class lectures and lab.

1. Class lectures

Most of the knowledge that you will be required to learn will be presented through a variety of formal lectures. These will be structured to teach you basic knowledge about the molecular and cellular response of the living body when exposed to injurious agent, typing and classification of different tissue changes as well as to understand of the relationship between causes and tissue changes and the mechanisms of pathological alterations which you will need to perform microscopic description of tissue changes of the lesions.

There will- be mid-year and final examinations. These exams are also geared to the course objectives and are designed to determine how well you have learned the material and how you are progressing toward achievement of the objectives. All of these testing procedures form the base for your grade in oral pathology and are weighted accordingly to their importance.

Description of Lectures Contents

1. Course Orientation& Introduction of Oral Pathology

- 1.1. Course description
- 1.2. Good selection of tissue specimens for pathological diagnosis on print-fmger bases.
- 1.3. Preparation and manipulation of pathological tissue specimens.

2o Dental Caries

- 2.1. Aetiology of dental caries
- 2.2. Clinical aspects of dental caries

3.2. Histopathology of dental caries

3. Pulp Diseases

3.1. Etiology features in pulp diseases

3.2. Classification of Pulp diseases

3.3. Histopathology of Pulp diseases

4. PERIAPICAL LESIONS

4.1. per apical granuloma

4.2. per apical abscess

5. OSTEOMYELITIS

5.1. Types of osteomyelitis

5.2. Radiographic features of osteomyelitis

5.3. Histopathology of osteomyelitis

6. OROFACIAL CYSTS

6.1. Odontogenic cysts

6.2. Non- Odontogenic cysts

6.3. Non-epitheliated cysts

7. DEVELOPMENTAL ANOMALIES OF THE ORAL AND

MAXILLOFACIAL REGION

7.1. Developmental anomalies of the soft tissues

7.2. Developmental anomalies of teeth

8. GIANT CELL LESIONS

8.1. Peripheral giant cell granuloma

8.2. Central giant cell granuloma

8.3. Giant cell tumor

8.4. Brown tumors of hyperparathyroidism

9. FIBROUS OVERGROWTHS OF THE ORAL CAVITY

9.1. Peripheral fibroma

9.2. Generalized gingival hyperplasia

9.3. Denture-induced lesions

10. Focal fibrous hyperplasia

11. PHYSICAL, CHEMICAL AND IDIOPATHIC PATHOLOGY OF TEETH

12.1. Attrition

12.2. Abrasion

12.3. Erosion

12.4. Resorption of teeth

13. ETIOLOGY OF ORAL CANCER AND PREMALIGNANT LESIONS

13.1. Aetiology

- 13.2. Leukoplakia 13.3 Erythroplaakia
- 13.4. Oral submucous fibrosis 14 **WHITE LESIONS**
- 14.2. Hereditary conditions . 14.3. Reactive lesions
- 14.4. Preneoplastic and neoplastic lesions
- 14.5. Other lesions
- 14.6. Non-epithelia white yellow lesions

15. ODONTOGENIC TUMORS

BENIGN NON-
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- 15.1. Benign tumors of epithelium
- 15.2. Benign tumors of connective tissue
- 15.3. Benign tumors of adipose tissue
- 15.4. Benign tumors of vascular tissue .
- 15.5. Benign tumors of nerve tissue

16. MALIGNANT NON- ODONTOGENIC TUMORS

- 16.2. Variants of oral squamous cell carcinoma
- 16-3. Other orofacial malignant epithelial neoplasm; Basal cell carcinoma

17. MALIGNANT CONNECTIVE TISSUE TUMORS

- 17.1. Sarcomas
- 17.2. Neoplastic proliferation of white cells

18. METASTATIC TUMORS TO THE JAWS

- 18.1. Mode of spread
- 18.2. Mechanism of metastatic process
- 18.3. Clinico-pathological features

19. ODONTOGENIC TUMORS

- 19.1. Tumors of odontogenic epithelium without odontogenic ectomesenchyme
- 19.2. Tumors of odontogenic epithelium with odontogenic ectomesenchyme, with or without dental hard tissue formation
- 19.3. Tumors of odontogenic ectomesenchyme with or without included odontogenic epithelium

20. SALIVARY GLAND TUMORS

- 20.1. Benign salivary gland tumors "
- 20.2. Malignant salivary gland tumors -

21. SALIVARY GLAND DISEASES

- 21.1. Infectious, sialadenitis
- 21.2. Non-infectious sialadenitis
- ,21.3. Reactive lesions -
- 21.4. Developmental defects

21.5. Xerostomia

22. BONE DISEASES

22.1. Fibrous dysplasia

22.2. Paget's dysplasia

22.3. Cherubism

23. BONE TUMORS

23.1. Benign tumors

23.2. Malignant tumors

24. PIGMENTED LESIONS

24.1. Benign lesions of melanocyte origin

24.2. Neoplasm

24.3. Pigmentations caused by exogenous deposits

25. INFECTIOUS DISEASES

25.1. Bacterial

25.2. Viral

25.3. Fungal

Required Reading:

- “Oral & Maxillofacial Pathology”, Neville BW, Allen DD and Bouquot JE, Saunders Co. ***5**
- “Oral Pathology, Clinical pathologic correlations”, Regezi JA Sciubba JJ, and Jordan R CK, Saunders Co.
- www.pubmed.com

® Oral Pathology and laboratory notes.

2. LABORATORY PHASE

The laboratory phase of the course is very important component of your training for microscopic description of tissue changes during disease in Oral Pathology. Practical exercises will help you develop skills in Oral Pathology.

STUDENT EVALUATION

1. Mid-Year Exam:

Mid-Year examination is computed as follows:

- Written examination 30%
- Practical examination 15 %

2c **Final** examination

Final examination is computed as follows:

@ Final Written; 30%

® Final Practical: 15 %

• Subjective Evaluation: 10 %

Evaluation Methods:

1. Written examination to assess knowledge & understanding.
2. Practical examination to assess professional & practical skills.
3. Oral examination to assess intellectual skills.
4. Other types of assessment as Research work.