

Postgraduate course
MSc . in
Oral Medicine

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University of Benghazi

Faculty of Dentistry

Postgraduate Program In Oral Medicine

Department Of Oral Medicine , Oral Pathology , Oral Diagnosis and Oral Radiology

PROSPECTUS FOR THE YEAR (YEAR)

FORWARD

The course of masters' degree in Oral Medicine has been started 2 year ago in this university. However, few alterations to the original program have been made in order to address the problems raised during the last 2 years. Our main goal is to improve our performance to provide good training program to the students. Oral Medicine specialty needs continuous updating and revisions of other medical and dental disciplines.

The study program for this year will include more clinical training, group discussion, journal club and will depend more on electronic information technology and internet resources.

Dr Mohamed S Hammad Ingafou.
course coordinator

COURSE DESCRIPTION:

Oral Medicine involves diagnosis and non-surgical management of organic diseases and functional disorders of oro-facial structures. it includes medical risk assessment for dental patients, screening for oral malignancy, management of oral premalignant lesions as well as diagnosis and management of oro-facial pain. because of the increased NUMBER of cases of HIV and related illnesses the oral health care of such patients and those with other systemic illnesses is extensively employed in a collaboration with other members of the Dental and Medical teams. It is, therefore, a liaison specialty, which involves close contact with other medical and dental specialties. The course provides a basis for understanding how medical

and surgical conditions influence oral health and oral health care and the hazards associated with operative intervention for these patients.

DETAILED DESCRIPTION OF THE COURSE

The faculty provides a postgraduate training courses in the field of Oral Medicine and Oral Diagnosis leads to master degree (MSc) in clinical dental sciences in the subject of Oral Medicine: It is 3 years long program, based on clinical training, thought courses and dissertation. This degree enables the postgraduate student for academic career in the field of Oral Medicine as well as specialist in Oral Medicine.

The lectures and clinical training will be carried out and supervised by the department of Oral Medicine and if necessary, the student may be allocated to specific sites inside or outside the faculty for certain purposes such as collecting data or study materials or to attend courses related to the studies. The course coordinator will arrange timetables, venue and lecturers giving the course. However, in all the stages of the course the pass mark for the subject is at least 60%.

AIMS AND OBJECTIVES OF THE COURSE

GENERAL AIMS

This course is primarily designed to consolidate and broaden the scientific knowledge of the candidate, improve his clinical skills and encourage a positive attitude towards his patients, colleagues and the society as a whole.

DURING THE COURSE:

This course provides an opportunity to the student to get good clinical training through unlimited access to the clinical cases in the department. They will be guided by the department staff in respect to patient reception and interview, ordering investigation, referral and overall management of the patients.

AT THE END OF THE COURSE

The student will be familiar with variety of the cases which usually seen in Oral Medicine department, and be able to diagnose and manage the most common oral diseases such as lichen planus and aphthous ulceration, xerostomia etc.. and be familiar with the use of topical and intralesional corticosteroids. The student should be confidently knows how to diagnose different types of dental pain especially those of pulpal or periodontal origin, abscess, infected cyst or obstructed salivary gland ducts and to differentiate between them and the other sources of oral pain such as neurological, vascular or

psychogenic pain. Furthermore a couple of seminars and group discussions will enable the student to understand the basics of research and how to update himself.

CLINICAL TRAINING

The student is to be trained on the art and methods of history taking, clinical examination of structures in the region and to interpret the findings of the investigations and taking biopsy. And to be train in who to write scientific records, referral letters, consultations and other communication skills.

FIRST STEP FOR FURTHER RESEARCH ABILITIES

The main aim of the dissertation in this course is to train the postgraduates about the scientific methodology of research, data collection, sampling, analysis, and critical discussion. The candidates should be able to make proper case reporting.

ORAL MEDICINE SPECIALISTS

The final and glorious goal of this courses is to make a local Oral Medicine specialist who is able to identify and manage oral soft tissue problems and related illnesses in a confident and competent way.

First year program

First year of the program is composed one full academic year. Time tables and venues for lecture are to be announced during the course. First year 3 subjects: (Total 160 hours). The subjects are:

- 1- Basic medical and dental sciences (110 hours)
- 2- Basics of oral diagnosis and radiology (20 hours)
- 3- Medical statistics and basics of epidemiology (30 hours).

TABLE 1: LECTURES PROGRAM OF “BASIC MEDICAL SCIENCES”

General Pathology	Cell and tissue damage	1
	Inflammation and repair	1

	Genetic basis of disease	1
	Immune response, Disorders of metabolism	1
	Disorders of development and growth	1
	Tumors	1
	The general reaction to trauma and hemorrhage.	1
Microbiology	General microbiology	1
	Streptococci, staphylococci and micrococci. Lactobacillus, coranybacteria and actinomycetes	1
	Neisseriaceae, vionella nd capnophaga Enterobacteria Vibrios and campylobacters	1
	Fusobacteria and spirochetes Mycobacteria and Legionella	1
	Chlamydiae rickettesia and mycoplasma	
	Viruses and Fungi	1
Anatomy	Outlook of Body structure, systems, organs and tissues.	2
	The skull and facial bones and cranial nerves	1
	Systemic anatomy of the head and neck	1
	Anatomy of the oral region: oral mucosa, dentition, nerve supply, blood supply, muscles of mastication and lymphatics	2
	Developmental anatomy	1
Pharmacology	General principles of drugs, actions, reactions, and routes of administration	2
	Pharmacology of autonomic nervous system.	1
	Analgesics & Drugs used in management of orofacial pain	1
	Sedatives, anesthetics and hypnotics	1
	Antibiotics and other pharmaceutical agents for treatment of infections.	1
	Antifungal and antivirals	1
	Ant diabetic drugs, Histamines & antihistamines	1
	Hormones and vitamins	1
	Corticosteroids: systemic and topical therapy	1
	Antihypertensive s and other cardiovascular drugs	1
Physiology		
Oral Pathology		
Oral Histology		

Total

110

NB. the number of lectures is liable to changes according to the arrangements with other departments in the university

TABLE 2: DETAILED LECTURING PROGRAM OF THE SUBJECT “BASICS OF ORAL DIAGNOSIS AND RADIOLOGY” (20 hours)

1. History taking	1
2. Clinical examination	3
3. Blood Investigations	2
4. Biopsy techniques	1
5. Immunofluorescent and Immunoperoxidase techniques	1
6. Treatment planning	1
7. Referral and consultation and medical records	1
8. Diagnosis of dental caries and periodontal disease and their management	1
9. Radiographic interpretation	2
10. Basics of radiology and production of x-rays.	2
11. The physics of ionizing radiation	1
12. Biological effects of radiation	1
13. Radiation safety and protection	2
14. Imaging principles	1
15. Radiographic techniques and principles	2
16. Radiographic interpretation Of pathosis	2
Total	20

TABLE 3: DETAILED LECTURING PROGRAM OF THE SUBJECT “MEDICAL STATISTICS AND BASICS OF EPIDEMIOLOGY “ (20 hours)

2. Frequencies, distribution and histograms	2
3. Means, standard deviations and standard errors	1

4. The normal distribution	1
5. Confidence interval	1
6. Significance tests for the mean	1
7. Comparison of two means	1
8. Comparison of several means and ANOVA	1
9. Correlation and linear regression	1
10. Multiple regression	1
11. Probability	1
12. The chi square test and contingency tables	1
13. Measures of mortality and morbidity	1
14. Survival analysis	1
15. The Poisson distribution	1
16. Non parametric tests	2
17. Design strategies	1
18. Sampling methods and screening	1
19. Measures of disease frequency and association	1
20. Descriptive studies	2
21. Case control studies	1
22. Cohort studies	2
23. Clinical trials and intervention studies	1
24. The role of chance, bias, and confounding	1
25. The use of computers	2
Total	30

Final exam of the first year

The student will set a comprehensive exam at the end the year including all the studied subjects. The failure in the second chance prompts the termination of the postgraduate career of the student.

Second year program

(110 hours theory + 160 hours clinical training)

- 1- **Clinical Medical subjects:** (20 hours) General medicine (CVS, respiratory, GIT, Neurology, psychiatry), Dermatology & ENT.
- 2- **Oral Medicine Core subject** (60 hours): The following lectures are to be attended by all the candidates and will be given in different locations. Academics from other departments, medical faculty and visitors from abroad can be invited to participate in lecturing.

CORE LECTURES OF ORAL MEDICINE

1.	General rules, identification and Management of the medically compromised patient.	1
2.	General aspects of dermatological and immunological diseases	4
3.	Aphthous ulceration.	2
4.	Oral ulcerative and vesiculobullous disorders	2
5.	Oral Lichen planus.	2
6.	Pemphigus and pemphigoid	1
7.	Erythema multiformis	1
8.	Behcet's disease	1
9.	Cardiovascular disease:	3
	a) IHD, rheumatic heart diseases, infective endocarditis	
	b) Heart failure and cardiac arrhythmia	
	c) Hypertension.	
10.	Respiratory disorders	2
11.	Endocrine disorders:	2
	a) Pancreas, gonads and adrenals	
	b) Pituitary, thyroid and parathyroid glands.	
12.	Pathophysiology of diabetic complications	1

13.	Gastrointestinal disorders.	2
14.	Genitourinary & renal diseases.	1
15.	Headache and orofacial pain.	3
16.	Mental function; Psychosomatic disorders; epilepsy stroke motor, and sleep disorders.	2
17.	Diagnosis and management of TMJ disorders.	2
18.	Liver diseases	1
19.	Viral hepatitis	2
20.	HIV infections and AIDS	2
21.	Metabolic disorders:	2
	Gout	
	Porphyria	
	Wilson's disease	
	Lysosomal storage diseases	
	Glycogen storage diseases	
	Amyloidosis	
22.	Diseases of the bone and joints.	2
	Arthralgia and arthritis	
	Osteoporosis, osteopetrosis and Paget's Disease	
	Fibroosseous lesions	
23.	Anemia and other RBC disorders.	2
24.	WBC disorders	2
25.	Disorders of homeostasis.	3
26.	Management of dental patients on anticoagulants	1
27.	Infections with prominent orofacial involvement.	1
28.	Viral and parasitic infection.	1
29.	Sexually transmitted diseases.	1
30.	Trauma and maxillofacial injuries.	2
31.	Potentially malignant lesions and other white lesions of oral mucosa	2
32.	Malignant diseases: diagnosis and prevention.	1
33.	Women's health and pregnancy.	2
34.	Dietary factors in health and disease.	1
	Total	60

Seminars

Students are asked to prepare for and present at least 5 of the following subjects. One subject can be shared with more than one student. The discussion to be attended by the department's staff, interns and other guests and to be presented in every two weeks throughout the year.

1. Primary Immunodeficiency disorders and hypersensitivity reactions
 2. Oral lichen planus
 3. Oral candidiasis and other mycoses
 4. Autoimmune disorders
 5. Xerostomia and Sjogren's syndrome
 6. HIV and other acquired immunodeficiency disorders
 7. Dental uses and adverse effects of corticosteroids
 8. Oral malignancies, diagnosis and management
 9. Oral Radiology Subjects (decided later).
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Journal club

A journal club is a group of individuals who meet regularly to critically evaluate recent articles in scientific literature. Journal clubs are usually organized around a defined subject in basic or applied research. For example, the application of evidence-based dentistry to some area of medical practice can be facilitated by a journal club. Typically, each participant can voice their view relating to several questions such as the appropriateness of the research design, the statistics employed, the appropriateness of the controls that were used, etc. Journal clubs are sometimes used in the education of graduate or professional students. These help make the student become more familiar with the advanced literature in their new field of study. In addition, these journal clubs help improve the students' skills of understanding and debating current topics of active interest in their field. (From Wikipedia, the free encyclopedia)

The students must prepare the material for the subject and a round table discussion will be held at which the level of the student knowledge and his techniques of collecting information will be evaluated at each session. The group discussions will be held monthly. The subjects which will be discussed this year are:

1. Oral ulceration
2. Orofacial infections
3. Orofacial pain and TMJ disorders
4. Cross Infection control

Clinical training

(6 hours weekly in the second year)

The student must interview, examine and follow cases in different oral medicine fields in the standard way and collect all the studied cases. The minimum requirement for the clinical load for the second year PG are as following:

1. Dental and periodontal diseases	20 cases
2. Oral Malignancy	5 cases
3. Oral Mucosal and mucocutaneous disorders	10 cases
4. Salivary disorders	3 cases
5. Facial pain and TMJ	10 cases
6. Patients with special needs	2 cases

Each student must supply all his work in log book that should be presented to the course coordinator before the final exam of the second year.

Final exam of the second year

The final exam for second year PG will be set at the end of the academic year. The student may be disqualified for setting the exam if he fails to fulfill all or part of the clinical and practical requirements set by the department. It should be noticed that the distribution of marks and the overall evaluation of the academic progress of the student is the responsibility of the academic department alone and by no way it should mimic the way it is being carried out in any other departments of the faculty. The final result of the student progress will be announced and the student may be asked to do some requirements or resit for the exam. Failure to pass in the second chance of the second year will lead to termination of the postgraduate study program of the student in the department.

University of Benghazi

Dental Faculty

Department of Oral Medicine and Oral Pathology

Log book for clinical training of postgraduate student in Oral Medicine

Student Name

Postgraduate Number:

STUDIED CASES NUMBERS:

Case No.	Patient's Name	Diagnosis	Page Number
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

12			
14			
15			
16			
17			
18			
19			
20			
Total case seen			

Third year program

The third year is dedicated to writing of the thesis, submission and its discussion.

THE THESIS

The student can start the work with the subject of study and collection of the preliminary information, tabulation etc. from the start of the second year. The selection of study subject and study protocol will be done according the procedures undertaken in the dental faculty. The protocol of study must be officially submitted to the course coordinator and studied by the department and the faculty scientific committee for postgraduate studies.

It should be noticed that all the studies and researches must comply with the requirements of the quality control procedures and if necessary the approval by ethics committee. It is the responsibility of the university (or the faculty and the Oral biology department) to appoint supervisors, tutors and examiners and to set examination timetables. The main discussion of the dissertation should be held preferably in a restricted number of audience, may be the examiners alone or with few persons appointed by the university such as independent observers, quality control evaluators, or officers from the examination board.

TEXTBOOKS AND FURTHER READINGS:

Books

ORAL DIAGNOSIS

- 3- Differential diagnosis of Oral and Maxillofacial lesions.** N Wood and P Goaz. *5th edit.* Mosby. 1997. ISBN 0-8151-9432-3.
- 4- Oral Diagnosis.** D. Kerr, M. Ash and H. Millard. (6th ed). Darlene Warfel (editor). Mosby Co. St. Louis, USA. 1983.
- 5- Principles of Oral Diagnosis.** Gary C. Coleman, John F. Nelson. Mosby. Latest Edition.

ORAL MEDICINE

- 6- Burket's Oral Medicine: Diagnosis and treatment.** Lynch, Brightman, Greenberg. *9th edit.* Lippincott-Raven pub. Philadelphia 1997. ISBN 0-397-51242-2.
- 7- Medical Problems in Dentistry.** C Scully, R A Cawson. *5th ed.* Elsevier Churchill Livingstone pub. London 2005 .ISBN 0-443-10145-0.

ORAL RADIOLOGY

- 8- Oral Radiology Principles and interpretation.** Whit, Pharaoh. *5th edit.* Mosby. pub. St Louis. 2004 .ISBN 0-323-02001-1
- 9- Oral Radiology: principles and interpretation.** PW Goaz , SC White. *2nd edit.* Mosby, 1987. ISBN 0-8016-1873-8.

II- Further Readings

- 10- Dental care for the medically complex patient.** P B Lockhart. *5th ed.* Wright pub. 2005.
- 11- Essentials of Oral Medicine.** Silverman, Eversole, Truelove. B C Decker Inc. pub. Hamilton-London 2002. ISBN 1-55009-146-8.
- 12- Oral Medicine: A pocket guide.** L Eversole. *1st edit.* Saunders Com. Philadelphia.1996. ISBN 0-7216-4973-4.
- 13- Clinical problem solving in dentistry.** E Odell. Churchill Livingstone pub.2004.
- 14- Principles of practical Oral Medicine and patient evaluation.** JR Pramond. *1st edit.* India. ISBN 81-239-0933-0
- 15- A colour Handbook of Oral Medicine.** MA Lewis, RC Jordan. Manson pub. 2004. ISBN 1-84076-032-x. London.
- 16- Cawson's essentials of Oral Pathology and Oral Medicine.** RA Cawson, EW Odell. *7th edit.* Churchill Livingstone pub.2003. London. ISBN 0-443-071063.

- 17- Human disease for Dentist.** DJ Gawkrödger. Blackwell & Munksgaard. Oxford. 2004. ISBN 0-632-06453-6.
- 18- Principles and practice of Oral Medicine .** Sonis, Fazio, Fang. Latest edition.
- 19- Dental Radiography: Principles and techniques.** J Haring, L Lind. *3rd edit.* Saunders Com. pub. Philadelphia. 2000. ISBN 0-8016-5641-9.
- 20- Exercises in Oral Radiology and interpretation.** RP Langlais *4th edit.* Saunders pub. 2004. ISBN 0-7216-0025-5.
- 21- Oral and Maxillofacial Medicine.** C Scully. Wright Elsevier Churchill Livingstone pub. London 2004 .ISBN
- 22- Essentials of Oral Pathology and Oral Medicine** RA Cawson & E W Odell. *2nd ed.* Churchill and Livingstone pub. London 1998. ISBN 0443-05-3480.
- 23- Oral Medicine.** W R Tyldesley & E A Field *4th ed.* Oxford Univ Press. 1997. ISBN 0-19-262626-4.

III- Journals

- 1- **Oral Surgery ,Oral Medicine ,Oral Pathology ,Oral Radiology**
www.mosby.com/tripleo
- 2- **Journal of Oral Pathology & Medicine**
www.blackwellpublishing.com/journal.asp
- 3- **Oral Diseases - Journal Information**
www.blackwellpublishing.com/journal.asp

IV- Web sites

- 1- **Science Direct - Oral Surgery ,Oral Medicine ,Oral Pathology ,Oral.. Radiology & endo.**
<http://www.sciencedirect.com/science/journal>
- 2- **British Society for Oral Medicine**
www.bsom.org.uk
- 3- **Oral Diseases and Conditions**
www.softdental.com/diseases/oral_diseases_and_conditions.html