JINNAH MEDICALAND DENTAL COLLEGE

ORAL MEDICINE

DEPARTMENTAL GUIDE BOOK FOR THIRD YEAR STUDENTS



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INTRODUCTION

VISION STATEMENT: To set local and global standards for quality patient outcomes – creating a culture of excellence to promote a transformative experience for the 21st century clinicians, educators and researchers to benefit all humanity.

MISSION STATEMENT: We are committed to develop well rounded academics, thinkers, clinicians and researchers by strengthening a global view, broadening intellectual foundation and teaching effective communication. It is our aspiration to cultivate creative and critical thinking skills for problem solving, sensitive to cultural and ethical values and responsibilities. Our graduates will be role models and leaders for society.

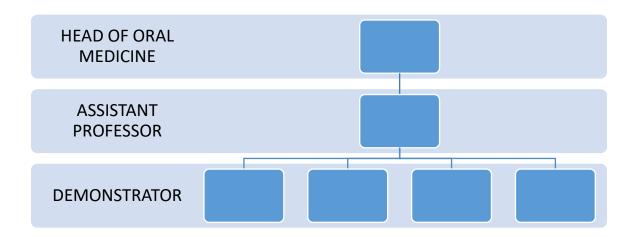
INTRODUCTION TO THE DEPARTMENT OF ORAL MEDICINE

Oral medicine is the specialty of dentistry concerned with the oral health care of patients with chronic, recurrent and medically related disorders of the oral and maxillofacial region, and with their diagnosis and non-surgical management.

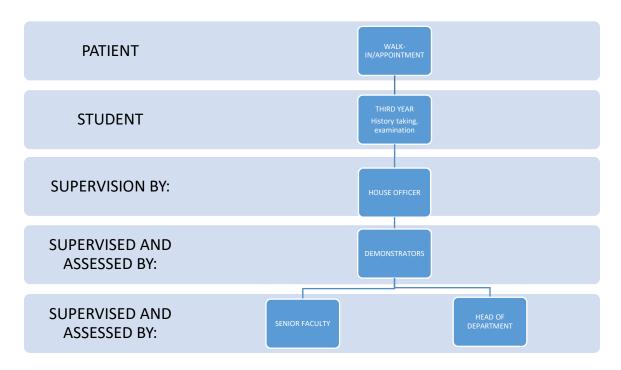
Oral medicine acts a focus for specialist interdisciplinary care of patients with symptoms arising from the mouth that do not relate directly to teeth. These symptoms are often chronic and may have a significant psychological, as well as physical impact on the patient's quality of life. In some instances, symptoms and signs reflect local problems restricted to the mouth. However, symptoms and signs can represent oral manifestations of more widespread disease.

In a course of four-year Bachelors in Dental Surgery (BDS) program, oral medicine is taught over a period of one year, which includes the clinical year, i.e., third and fourth year. Oral medicine is taught theoretical as well as Clinical.

DEPARTMENT HIERARCHY



DEPARTMENT TO STUDENT COMMUNICATION



PROGRAM OBJECTIVES

JMDC's program curriculum conforms to the regulations and recommendations of the Pakistan Medical & Dental Council and is designed to integrate academic knowledge and clinical experience which emphasize the following goals:

- Help students acquire relevant knowledge
- Develop student communication skills, both oral and written
- Promote team work
- Instill compassion and empathy
- Uphold Professionalism

VALUES FOR OUR DENTAL GRADUATES

- Equity
- Quality
- Compassionate Behavior
- Social Accountability
- Social Justice
- Humanistic Approach
- Leadership
- Innovation
- Integrity
- Collaboration

CODE OF CONDUCT

- Students attire must be professional, neat and clean
- Footwear must be clean, safe and in good condition.
- Jewelry, buttons, pins, and other accessories must be limited and unobtrusive.
- Hair should be clean and neatly styled.
- Nails must be trimmed neatly.
- Logos, advertisements, slogans, or other messages representing organizations other than JMDC or promoting political, social, religious, or other causes, should be inconspicuous.
- Use of foul/abusive language will not be tolerated

LEARNING OUTCOMES

FOR A THIRD YEAR STUDENT:

By the end of clinical rotation and lectures in oral surgery, the student should be able to:

- 1. Obtain detailed patient history inclusive of relevant medical history with its oral manifestations.
- 2. Perform clinical examination (intra-oral and extra-oral) relevant to presenting complaint.
- 3. Order appropriate radiographs
- 4. Interpret radiographic findings
- 5. Practice cross infection control protocols.
- 6. Describe oral lesions.
- 7. Explicate the non-odontogenic pain in oro-facial region.
- 8. Identify the history and habits leading to malignant oral lesions, especially in relation to our region.
- 9. Develop moral reasoning for ethical dilemmas.
- 10. Display effective communication.

STRATEGIES FOR LEARNING AND TEACHING:

1. Lectures (teaching large group):

The traditional way of teaching is adapted, it comprises of lecture having duration of 50 minutes three times a week for final year and once a week for third year. To keep a check of assessment of student learning through lectures following techniques are utilized;

- a. Quizzes.
- b. Interactive sessions.
- c. Student engagement to stimulate critical thinking.
- d. Activities for better understanding of topics.

2. Hands on learning:

Clinical learning in the out-patient department of oral surgery, in these timings both third year and final year students are engaged through;

- a. On patient learning.
- b. Supervised Small group discussions.
- c. Suturing skills.
- d. Taking vitals.
- e. Communication skills.

3. Self-Preparatory Material:

To complement the lectures, students are provided with videos, relatable book chapters and materials for better understanding. Along with these assignments, presentations and group activities are conducted.

4. E-Learning:

In the current times of pandemic COVID-19, distance learning has been incorporated in the strategies of learning and teaching.

In these challenging times an easy access has been provided to the students through E-portal. Each student has the access to the portal through their individual IDs, on which they can go through the recorded lectures and material whenever they want.

ASSESSMENT TOOLS TO EVALUATE STUDENT LEARNING:

1. In-Class Assessment:

- a. Attendance.
- b. Quizzes.
- c. Presentations.
- d. Assignments.

2. Ward Assessment:

A test is conducted in mid and end of the clinical rotation to assess the learning of students. It is to ensure that the students develop the required proficiencies under a supervised environment.

3. Examination Assessment:

a. Mid Term examinations:

These are conducted in the mid of the academic year. It comprises of two components;

Component	Marks
BCQs	50
OSCE/VIVA	50
TOTAL	150

b. Pre-Professional examinations:

These are conducted in the end of the academic year before the final professional examination. It comprises of two components;

Component	Marks
BCQs	50
OSCE/VIVA	130
TOTAL	250

c. Professional Examinations:

At the end of the academic year, JSMU conducts this exit examination that will award the students with the Bachelors in Dental Surgery (BDS) degree.

d. Internal Evaluation:

1.	Assignments / class tests / ward tests	25%
2.	Mid-term	35%
3.	Pre-prof	35%
4.	Extra effort	5%

Assignments / Tests / Mid-term / Pre-prof					
1.	Present and Fail	25%			
2.	Pass	Actual percentage			
3.	Absent	Zero			

Eligibility for sitting in the Professional Annual Examinations will be as follows:

- 1. Minimum of **40% aggregate** marks in all the Internal Examinations (Mid-term, Pre-prof, Assignments and Tests).
- 2. Students with less then **75% overall class attendance** will not be allowed to sit in the Annual Professional Examinations.
- 3. Clinical attendance will be maintained separately. Attendance in any clinical rotation which falls below 75% must be made up by the students.
- 4. Students must obtain **passing marks in the clinical ward tests**. Failing to do do, students will have to sit for a re-take ward test (only one retake is allowed).

COURSE CONTENT TAUGHT IN THIRD YEAR:

Following course content is covered over the period of two years:

By the end of the BDS $3^{\rm rd}$ year student should be able to have a basic knowledge about the following

1. PRINICPLES OF INVESTIGATIONS AND DIAGNOSIS

S.no.	Topics	Objectives	Teaching and Learning Methodology	Assessment Tools	Credit Hours
1.	History taking	 Record a comprehensive history Understand each aspect of history Demographic details Presenting complaint (significance of recording it in the patient's own words) History of the presenting complaint Medical history (impact of the co-morbid on oral health) Dental history Family and social history 	 Lectures Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation 	 BCQs OSCEs Direct observation of clinical skills Direct observation of procedural skills Will be assessed during: Daily supervision Mid-term and Pre prof examination Clinical rotation 	50
2.	Investigations	 Conduct detailed extra-oral and intra-oral examination INTRA-ORAL a. Periodontal status b. Soft tissues c. Caries 	 Lectures Chair- side teaching Teaching in radiology department 	BCQsOSCEsDirect observation of clinical skills	

		d. Occlusion II. EXTRA-ORAL a. TMJ b. Cervical lymph nodes c. Mouth opening d. Facial symmetry 2. Cranial nerve examination (particular emphasis on CN V and VII) 3. Analyze the data provided on the following investigations I. Hematological II. Radiographs III. Histopathology IV. Specialized imaging e.g.: Sialography, CT scan, MRI, Radioisotope scan V. Molecular biology VI. Culture & sensitivity, PCR and serology VII. Immunohistochemistry	Supervised work on patients Clinical Rotation	 Direct observation of procedural skills Will be assessed during: Daily supervision Mid-term and Pre prof examination Clinical rotation
3.	Diagnosis	Propose differential diagnosis on the basis of I. Site of lesion II. Type of lesion III. Physical characteristics of lesion		
4.	Treatment planning	Provide a treatment plan for common oral pathologies		

2. ORAL INFECTIONS

1.	Bacterial Infections	1. Discuss the sign and symptoms and clinical features of oro-facial bacterial infections I. Odontogenic infections a. Routes of spread b. Cellulitis c. Ludwig's angina d. Facial space infections II. Actinomycosis III. Syphilis	•	Lectures Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation	•	BCQs OSCEs Direct observation of clinical skills Direct observation of procedural skills	
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		 State the investigations required to reach a diagnosis Management of patients presenting with bacterial infections Justify the choice of specific antibiotics used to treat each infection Discuss reasons for antibiotic resistance 	Will be assessed during: Daily supervision Mid-Term and Pre prof examination Clinical rotation
2.	Viral Infections	 Describe the sign and symptoms and clinical features of oro-facial viral infections Herpes simplex virus Varicella zoster virus Coxsackie virus Epstein Barr virus Cytomegalovirus Human	
3.	Fungal Infections	 Classification of fungal infections Describe the sign and symptoms and clinical features of oro-facial fungal infections State the investigations required to reach a diagnosis Management of patients presenting with fungal infections Explain reasons for failure of anti- fungal therapy 	

3. ORAL ULCERATIVE LESIONS

1.	Classification	Classify oral ulcers on the basis of etiology	 Lectures Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation 	 BCQs OSCEs Direct observation of clinical skills Direct observation of procedural skills Will be assessed during: Daily supervision Mid-term and Pre prof examination Clinical rotation
2.	Non- vesiculobullous conditions	 Discuss the sign and symptoms and clinical features of nonvesiculobullous conditions State the investigations available for diagnosis Enlist the available pharmacological treatment options 		
3.	Vesiculobullous conditions	 Discuss the sign and symptoms and clinical features of vesiculobullous conditions State the investigations available for diagnosis Enlist the available pharmacological treatment options 		

4. ORAL SOFT TISSUE LESIONS

1.	White lesions	 Classify white lesions occurring in the oral cavity Identify the white lesion based on History Etiology Clinical features Explain management options for unresolving white lesions 	 Lectures Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation 	 BCQs OSCEs Direct observation of clinical skills Direct observation of procedural skills Will be assessed during: Daily supervision Mid-term and Pre prof examination Clinical rotation
2.	Red lesions	 Classify red lesions occurring in the oral cavity Identify the red lesion based on History Etiology Clinical features Explain management options for unresolving red lesions 		
3.	Pigmented lesions	 Classify pigmented lesions of the oral cavity Discuss the sign and symptoms and clinical features of malignant melanoma Differentiate between malignant melanoma and other pigmented lesions of the oro-facial region Describe management of malignant melanoma 		
4.	Pre-malignant lesions and ulcers	Differentiate between premalignant lesions and conditions		

2.	Describe management of dysplastic lesions		
3.	Enlist risk factors for development of malignancy in premalignant lesions/conditions		

5. MOTOR AND SENSORY CHANGES IN THE ORO-FACIAL REGION

1.	Facial pain	1. Differentiate between diverse presentations of facial pain based on I. History II. Clinical examination 2. Discuss the clinical features, diagnosis and management options of I. Trigeminal neuralgia III. Atypical facial pain IIII. Burning mouth syndrome PLECTURES Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation Clinical Rotation Poservation of clinical skills Direct observation of clinical skills Uill be assessed during: Daily supervision Mid-term and Pre prof examination Clinical rotation	
2.	Facial palsy	 State the etiological factors involved in facial palsy Identify Bell's palsy in patients presenting to the OPD Discuss management options regarding facial palsy 	

6. SALIVARY GLAND DISORDERS

1.	Salivary flow	 Classify salivary flow 	• Lectures	• BCQs
	obstruction	obstruction on the basis of	• Chair- side	• OSCEs
		etiology	teaching	

		2. Describe the pathophysiology, clinical features, investigations and management options of I. Salivary calculi II. Mucocele III. Ranula	 Teaching in radiology department Supervised work on patients Clinical Rotation 	 Direct observation of clinical skills Direct observation of procedural skills Will be assessed during: Daily supervision Mid term and Pre prof examination Clinical rotation
2.	Infections (sialadenitis)	 Describe the pathophysiology, clinical features and management options of Acute bacterial sialadenitis Chronic bacterial sialadenitis Suppurative parotitis Viral sialadenitis (mumps) Differentiate between bacterial and viral sialadenitis 		
3.	Xerostomia	 Classify etiological factors relating to xerostomia Discuss the clinical features of Sjogren's syndrome Explain the management of xerostomia (with particular emphasis on Sjogren's syndrome) 		

7. TEMPOROMANDIBULAR JOINT DISORDERS

1.	Evaluation	 Describe the commonly occurring sign and symptoms of temporomandibular disorders Discuss the recently available investigation modalities for temporomandibular disorders (TMJ arthrography, CT scan and MRI) 	 Lectures Chair- side teaching Teaching in radiology department Supervised work on patients Clinical Rotation 	 BCQs OSCEs Direct observation of clinical skills Direct observation of procedural skills Will be assessed during: Daily supervision Midterm and Pre prof examination Clinical rotation
2.	Treatment	 Enlist available pharmacological treatment options, occupational therapy, prosthetic splint therapy and alternative medical therapy for pain 		

8. SYSTEMIC DISORDERS

1.	Cardiovascular	1. Explain the clinical	• Lectures	• BCQs
	diseases	considerations for dental	• Chair- side	• OSCEs
		management of patients	teaching	• Direct
				observation

		disease II. On warfarin therapy III. On anti-platelet medication 2. Discuss the recent guidelines of antibiotic prophylaxis for infective endocarditis 3. Enlist oral manifestations of anti-hypertensive drugs	hing in slogy rtment rvised work atients cal Rotation Will be assessed during: Daily supervision Mid term and Pre prof examination Clinical rotation
2.	Respiratory diseases	 Describe the management of patients presenting with the following co-morbid: Asthma Chronic obstructive pulmonary disease Discuss the clinical features, investigations and treatment of sarcoidosis 	
3.	Gastrointestinal diseases	1. Describe oral manifestations of I. Crohn's disease II. Ulcerative colitis III. Orofacial granulomatosis IV. Coeliac disease V. Hepatitis B & C 2. Discuss considerations for dental management of patients with inflammatory bowel disease and Hepatitis B & C	
4.	Renal diseases	 Enlist oral manifestation of patients with renal diseases Describe considerations for dental management of 	

		patients with chronic renal disease
5.	Hematological diseases	1. Describe the oral manifestations of the following hematological diseases I. Anemia II. Leukemia III. Lymphoma 2. Discuss considerations for dental management of patients with aforementioned conditions
6.	Hemorrhagic diseases	1. Discuss the oral manifestations of the following hemorrhagic conditions I. Purpura II. Von willebrand disease III. Hemophilia 2. Discuss considerations for dental management of patients with hemorrhagic diseases

ORAL MEDICINE CLINICAL ROTATION WEEKLY SCHEDULE

ORIENTATION SESSION:

- Introduction to department.
- Introduction to demonstrators/lecturers.
- Effective communication.
- Code of conduct:
 - OPD timings (Punctuality)
 - o Dress code
 - -Lab coat
 - -Tied-up hair
 - -Covered shoes etc.
- Hand wash technique.
- Briefing about;
 - o Dental units,
 - o Instruments,
 - o Diagnosis and
 - o Patients' record maintenance
 - Log book maintenance
- Cross infection control.

ORAL MEDICINE

THIRD YEAR CLINICAL ROTATION

Credit hours: 75

Objective: By the end of the clinical rotation the 3rd year BDS student should be able to demonstrate the following clinical and procedural skills.

S.	Clinical and Procedural Skills	Teaching	Assessment tools
No.		Methodology	
1.	Instruments and chair position-demonstration	Chair- side teachingTeaching in	OSCEsDirect observation of
2.	History taking and clinical examination	radiology department	clinical skills Direct
3.	Interpretation of radiographs (peri-apical, bitewing, OPG and occlusal)	Supervised work on patientsPresentations and	observation of procedural skills
4.	Identification and differential diagnosis of various odontogenic and soft tissue cysts	Discussions	Will be assessed during:
5.	Identification and differential diagnosis of various infections including the bacterial, viral and fungal		Daily supervisionClinical rotation
6.	Identification and differential diagnosis of various odontogenic tumors		
7.	Identification and differential diagnosis of various salivary gland disorders		
8.	Identification and differential diagnosis of various oro-facial pathologies including the white, red and pigmented lesions. Potentially malignant lesions and the oral squamous cell carcinoma		

9.	Identification and differential	
	diagnosis of various disorders of the	
	Temporo Mandibular Joint	
10.	Identification and differential	
	diagnosis of various oro facial ulcers	
	_	

THIRD YEAR CLINICAL AND TUTORIAL TOPICS

11.	Identification and differential
	diagnosis of various oral
	manifestations of the systemic
	diseases
12.	Identification and differential
	diagnosis of various Oro facial pain
	and Headaches

- 1. Pharmacokinetics and Pharmacodynamics of following drugs:
 - i. Amoxil.
 - ii. Flagyl.
 - iii. Velocef.
 - iv. Panadol.

- v. Brufen.
- 2. Local anesthesia:
 - i. Classification.
 - ii. L.A ingredients.
 - iii. Mechanism of Action.
 - iv. Toxicity.

OPD SCHEDULE THIRD YEAR

DAYS	Mon	Tue	Wed	Thu	Fri	Sat
	DEMO (10:30-11:30)	SKILLS (11:00-12:00)	PRESENTATION (12:00-12:30)	-	-	
WEEKS						
1	History		Antibiotics (Amoxil/Flagyl)	-	-	
2	Examination (oral and nerves)		Pain killer (Panadol/Nsaids)	-	-	
3	Patient/Operator Positioning		Nerve supply	-	-	
4	Suturing Technique		Local anesthesia	-	-	