

**JINNAH MEDICAL AND DENTAL COLLEGE**

**PERIODONTOLOGY**

**DEPARTMENTAL GUIDE BOOK FOR THIRD YEAR BDS**  
**STUDENTS**





## TABLE OF CONTENTS

VISION -----	3
PROGRAM LEARNING OUTCOMES -----	4
INTRODUCTION -----	5
PERIODONTOLOGY DEPARTMENT -----	6
DEPARTMENT HIERARCHY-----	7
PATIENT FLOW CHART -----	8
LEARNING OUTCOMES -----	9
TEACHING AND LEARNING STRATEGIES -----	10
ASSESSMENT TOOLS TO EVALUATE STUDENT LEARNING -----	11
ELIGIBILITY FOR SITTING IN THE PROFESSIONAL ANNUAL EXAMINATIONS -----	13
COURSE CONTENT -----	14
PERIODONTOLOGY CLINICAL ROTATION -----	25
DEPARTMENTAL RESOURCE BOOK LIST-----	27
3RD YEAR BDS PERIODONTAL DEPARTMENT ROTATION -----	28
CLINICAL ROTATION SCHEDULE OF 3RD YEAR BDS -----	29
3 <sup>rd</sup> YEAR CLINICAL PERIODONTOLOGY ROTATION -----	33



## **VISION**

To set local and global standards for quality patient outcomes- creating a culture of excellence to promote a transformative experience for the 21<sup>st</sup> 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.

## **PROGRAM OBJECTIVES**

JMDC's program curriculum conform 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

## **PROGRAM LEARNING OUTCOMES**

- Our dental graduate shall be able to:
- Develop insight, imagination, and curiosity, define one's unique self, one's values and one's place in the world, while incorporating the qualities of a good physician.
- Answer complex questions facing physicians, including the role they should play in society, politics, and promotion of social justice.
- Display enlightenment and moral values to prepare themselves for life and work in a problematic, changing, and diverse world.
- Be responsible leaders for their own good of their family, community, and country.
- Be humane and socially equipped individuals, in tune with rights of patients and vulnerable groups
- Develop moral reasoning for ethical dilemmas
- Be experts of critical situational analysis
- Believe in diversity in practice
- Display effective communication
- Be able to address population health system issues based on demography, by statistics, epidemiology, and cultural nuances.

## **VALUES FOR OUR MEDICAL AND DENTAL GRADUATE**

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



## **INTRODUCTION**

### **INTRODUCTION TO PERIODONTOLOGY**

Periodontology is one of the specialties of Dentistry that deals with the health and diseases of gingiva as well as other structures which are surrounding the teeth including alveolar bone. A periodontist deals with management / treatment of patients with diseases of the gingiva and the structures supporting the teeth. The goal is to treat the patient keeping in mind a holistic approach and manage the gingival and periodontal condition of the patients non-surgically as well as surgically.



## PERIODONTOLOGY DEPARTMENT



# DEPARTMENT HIERARCHY

## DEPARTMENT OF PERIODONTOLOGY

**PRINCIPAL**

**VICE-PRINCIPAL**

**HEAD OF DEPARTMENT**

**DR. UJALA FAISAL**

**ASSISTANT PROFESSOR**

**DEMONSTRATOR**

**Dr. Aisha Naveed**

**Dr. Amna Iqbal**

**Dr. Nimra Pir Nasir**

**Para Dental Staffs**

**(Dental Assistants/Technicians)**

**1. Muzammil**

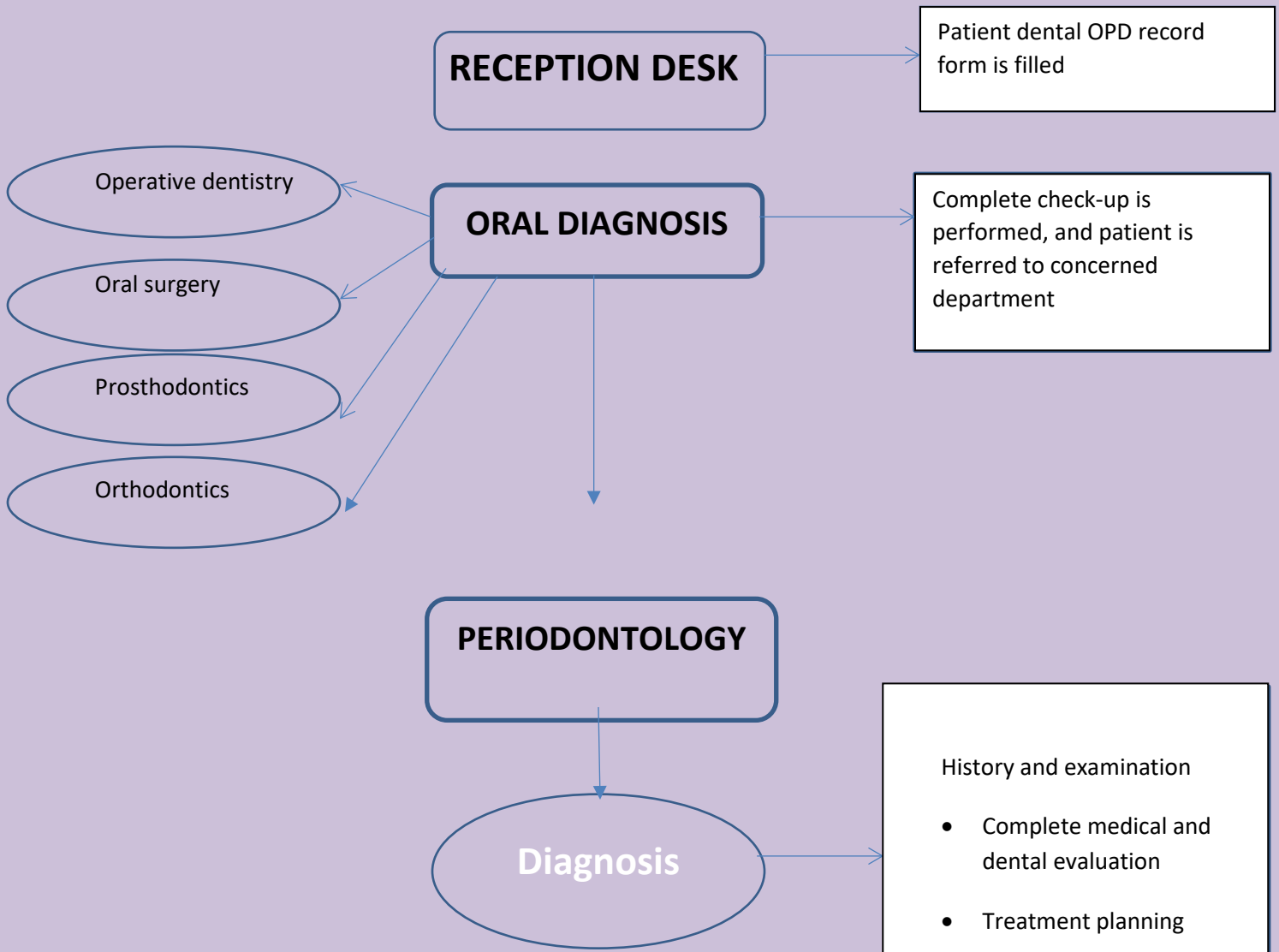
**2. Ahmed Raza**

**House Officers**

**Third Year BDS Students**

# PATIENT FLOW CHART

## CLINICAL PATHWAY OF PATIENTS





## **LEARNING OUTCOMES**

FOR A THIRD YEAR STUDENT:

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

1. Obtain detailed history of a patient reporting to Periodontology department including any relevant medical history and clinical findings.
2. Perform clinical examination (intra-oral and extra-oral) relevant to presenting complain.
3. Perform periodontal charting.
4. Identify radiographic examination and be able to utilize them into appropriate investigation.
5. Practice cross infection control protocols.
6. Describe gingival and periodontal conditions.
7. Able to diagnose and differentiate between different types of gingivitis and periodontitis.
8. Devise treatment plans for different periodontal conditions.
9. Able to write prescriptions.
10. Display effective communication.

## **TEACHING AND LEARNING STRATEGIES**

### **1. Lectures (large group teaching):**

The traditional way of teaching is adapted for large groups to maximize interaction. It comprises 1 lecture per week: each of 50 minutes duration. For student engagement and active participation to its fullest, following are employed:

- a. Quizzes
- b. Active learning strategies.
- c. Mini-student presentations

### **2. Hands on learning:**

Most of the clinical learning occurs in the out-patient department of Periodontology during OPD hours. Students are engaged through:

- a. On-patient demonstration of clinical and procedural skills and counselling.
- b. Discussions for critical thinking, decision making and ethical issues

### **3. Learning guidance:**

To complement the lectures, students are provided with videos, relevant book chapters and materials for better understanding. Along with these individual and group tasks are assigned.

### **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 n 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 recoded lectures and material whenever they want.

## ASSESSMENT TOOLS AND STRATEGIES:

### 1. In-Class Assessment:

- a. Participation/ interaction
- b. Quizzes.
- c. Presentations.
- d. Assignments.

### 2. Ward Assessment:

A test is conducted at the end of the clinical rotation to assess the learning of students. This is to ensure that the students develop the required skills under supervision in a controlled environment.

### 3. Mid Term examinations:

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

Component	Marks
BCQs	50
OSCE	25
VIVA	25
TOTAL	100

### 4. Pre-Professional Examinations:

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

Component	Marks
BCQs	50
OSCE	25
VIVA	25
TOTAL	100

## 5. Internal Evaluation/ Continuous Assessment policy:

### Continuous Assessment Policy

1.	Assignment/ class test/ ward test etc.	25%
2.	Mid-term exam	35%
3.	Pre-prof. exam	35%
4.	Extra effort	5%

Details of assignments/ Test/Mid-term/ Pre-prof.		
1.	Present and fail	25%
2.	Pass	Actual percentage
3.	<b>ABSENT</b>	<b>ZERO</b>

### 5. Professional Annual Examinations:

Professional annual examinations are conducted by the University and comprise theory examinations and OSPE/OSCE.

## ELIGIBILITY FOR SITTING IN THE PROFESSIONAL ANNUAL EXAMINATIONS

1. Minimum of **40% aggregate** marks in all continuous assessment examinations (Mid-Term, Pre-Prof. , Assignments and Tests)
2. Students less than **75% overall 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 students.
4. Students must obtain **passing marks in the clinical ward tests**. Failing to do so, students will have to sit for re-take ward test (Only one re-take is allowed).
5. To be considered successful in annual professional examination the students must pass individual components of the professional examination. This is to say, that the students must pass theory and OSPE/ OSCE examinations independent of each other. Failing one component will result in failing that component of the subject only. The student will then have to appear for supplementary examination in that component of the subject.

## COURSE CONTENT

**ALLOCATION OF CREDIT HOURS: 50 lecture hours; 125 practical hours**

### ANATOMY OF THE PERIODONTIUM

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
		By the end of third year BDS, the student should be able to:		The students will be assessed during class tests, mid-rotation, and end-of rotation tests; mid-term and final examination through:
1.	Anatomy of the periodontium	<ol style="list-style-type: none"> <li>1. Describe healthy periodontium</li> <li>2. Describe the anatomy of Periodontium</li> <li>3. Describe the physiology of Periodontium</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>
2.	Oral mucosa	<ol style="list-style-type: none"> <li>1. Describe the types of Oral Mucosa</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>
3.	Gingiva	<ol style="list-style-type: none"> <li>1. Explain the clinical features of healthy Gingiva</li> <li>2. Classify the types of Gingiva and Anatomy                             <ul style="list-style-type: none"> <li>• Marginal</li> <li>• Attached</li> <li>• Interdental</li> </ul> </li> <li>3. Enumerate the blood supply, Nerve supply and Lymphatic System of Gingiva</li> <li>4. Enumerate the functions, features and types of</li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>

		Gingival epithelium& Connective Tissue 5. Describe biological Width		
4.	Periodontal Ligament	1. Discuss clinical features of Periodontal Ligament 2. Describe types of Periodontal fibers and Anatomy 3. Recognize blood supply, Nerve supply and Lymphatic system of Periodontium 4. Appraise functions of Periodontal ligament	1. Lecture 2. Tutorial	1. BCQS 2. Assignment
5.	Cementum	1. Describe clinical features of Cementum 2. Enumerate types and classification of cementum 3. Explain vascularization, innervation and its functions. 4. Describe cementoenamel junction 5. Describe hypercementosis 6. Explain ankylosis	1. Lecture 2. Tutorial	1. BCQS
6.	Alveolar Bone	1. Describe anatomy of alveolar bone 2. Discuss vascularization of the alveolar bone 3. Discuss composition of Alveolar bone 4. Describe bone marrow, Periosteum and Endosteum 5. Differentiate between fenestration and Dehiscence	1. Lecture 2. Tutorial	1. BCQS 2. Assignment

		6. Describe bone remodeling		
7.	Saliva	1. List composition of Saliva 2. List micro-flora of Saliva 3. Enlist Functions of Saliva	1. Lecture 2. Tutorial	1. BCQS
8.	Gingival crevicular fluid (GCF)	1. Describe Composition of GCF 2. Discuss micro-flora of GCF 3. Enlist functions of GCF	1. Lecture 2. Tutorial	1. BCQS 2. Assignment

### CLASSIFICATION, ETIOLOGY AND EPIDEMIOLOGY OF PERIODONTAL DISEASES

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
1.	Classification of Periodontal & Gingival Diseases	1. Classify Periodontal diseases and Conditions 2. Classify Gingival diseases <ul style="list-style-type: none"> <li>Dental Plaque Induced Gingival diseases</li> <li>Non-Plaque Induced Gingival diseases</li> </ul>	1. Lecture	1. BCQS 2. Assignment
3.	Epidemiology of Periodontal diseases; All Indices	1. Discuss <ul style="list-style-type: none"> <li>Plaque index</li> <li>Debris index</li> <li>PMA index</li> <li>Gingival index</li> <li>Sulcus bleeding index</li> <li>Periodontal index</li> <li>Periodontal destructive index</li> <li>h) Community Periodontal index of treatment need (CPITN)</li> </ul>	1. Lecture 2. Tutorial 3. Clinical demonstration	1. BCQS 2. OSCE



3.	<p>Etiology of Periodontal diseases;</p> <p>a. Acquired pellicle/ Dental pellicle</p> <p>b. Materia Alba</p> <p>c. Dental Plaque</p> <p>d. Dental Calculus</p> <p>e. Pre-disposing factor</p>	<p>1. Define plaque</p> <p>2. Discuss plaque with reference to:</p> <ul style="list-style-type: none"> <li>• Composition</li> <li>• Maturation</li> <li>• Structure</li> <li>• Plaque microbiology</li> </ul> <p>3. Discuss features of</p> <ul style="list-style-type: none"> <li>• Supragingival plaque</li> <li>• Subgingival plaque</li> </ul> <p>4. Describe</p> <ul style="list-style-type: none"> <li>• Clinical significance of dental Plaque in the formation of gingivitis</li> <li>• Origin and composition</li> <li>• Mode of attachment</li> <li>• Mineralization</li> <li>• Clinical significance of calculus</li> </ul>	<p>1. Lecture</p> <p>2. Tutorial</p> <p>3. Clinical demonstration</p>	<p>1. BCQS</p> <p>2. Assignment</p>
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## PATHOGENESIS

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
1.	Microbiology and Pathology of Periodontal disease	<p>1. Discuss host response in Periodontal Disease</p> <p>2. Describe clinical significance of Dental Plaque and calculus in gingivitis</p> <p>3. Discuss microbiology of Plaque associated Periodontal disease</p>	1. Lecture	<p>1. BCQS</p> <p>2. Assignment</p>

2.	Periodontal Pocket & Pseudo Pocket	<ol style="list-style-type: none"> <li>1. Define periodontal pocket and pseudo pocket</li> <li>2. Describe soft and hard tissue wall of Periodontal pocket</li> <li>3. Enlist pocket contents</li> <li>4. Classify periodontal pockets</li> <li>5. List the features of periodontal pockets             <ol style="list-style-type: none"> <li>1. Suprabony</li> <li>2. Infrabony</li> </ol> </li> <li>6. Define pseudo pocket</li> <li>7. List the Clinical Features of Pseudo pocket</li> </ol>	1. Lecture	1. BCQS
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## GINGIVAL DISEASES

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
1.	Gingivitis	<ol style="list-style-type: none"> <li>1. Describe the clinical feature of different types of gingivitis</li> <li>2. Discuss signs and symptoms of gingivitis of different types</li> <li>3. Discuss acute gingival infections             <ul style="list-style-type: none"> <li>• NUG</li> <li>• PHG</li> <li>• Pericoronitis</li> </ul> </li> <li>4. Discuss etiology and treatment options of different types of gingivitis</li> <li>5. Describe clinical features of Chronic Gingivitis</li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> <li>3. OSCE</li> </ol>

		<p>6. Discuss the following:</p> <ul style="list-style-type: none"> <li>• Gingival Bleeding</li> <li>• Gingival texture</li> <li>• Gingival consistency</li> <li>• Gingival enlargement</li> <li>• Gingival Recession</li> <li>• Gingival Pigmentation</li> </ul>		
<b>2.</b>	Desquamative Gingivitis	<ol style="list-style-type: none"> <li>1. Define desquamative gingivitis</li> <li>2. Describe its clinical features</li> <li>3. Differentiate between mild, moderate and severe form</li> <li>4. Discuss factors involved <ul style="list-style-type: none"> <li>• Nutritional factors</li> <li>• Hormonal factors</li> <li>• Dermatological condition</li> <li>• Chemotherapeutic agents</li> <li>• Fungal infection</li> </ul> </li> </ol>	1. Lecture	1. BCQS
<b>3.</b>	Gingivitis Associated with systemic diseases	<ol style="list-style-type: none"> <li>1. Define Gingivitis Associated with systemic diseases</li> <li>2. Discuss clinical features</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>
<b>4.</b>	Gingivitis Associated with Condition like Pregnancy/Puberty	<ol style="list-style-type: none"> <li>1. Define Gingivitis Associated with Condition like Pregnancy/Puberty</li> <li>2. Discuss clinical features</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>

5.	Gingival Enlargement	<ol style="list-style-type: none"> <li>1. Describe Inflammatory Enlargement</li> <li>2. Discuss drug-induced Gingival Enlargement</li> <li>3. Discuss: <ul style="list-style-type: none"> <li>• Enlargements associated with Systemic diseases</li> <li>• Neoplastic enlargement</li> <li>• Idiopathic gingival enlargement</li> <li>• False enlargement</li> <li>• Hormonal Changes</li> </ul> </li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> <li>3. OSCE</li> </ol>
6.	Mouth Breathing associated Gingivitis	<ol style="list-style-type: none"> <li>1. Define Mouth Breathing Associated Gingivitis</li> <li>2. Discuss clinical features</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>

## PERIODONTAL DISEASES

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
1.	Periodontitis	<ol style="list-style-type: none"> <li>1. Differentiate between the following types of periodontitis <ul style="list-style-type: none"> <li>• Chronic (localized and generalized)</li> <li>• Aggressive (localized and generalized)</li> <li>• Necrotizing Periodontitis (AIDs Related and Non-AIDs Related)</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> <li>3. Clinical Demonstration</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> <li>3. OSCE</li> </ol>

2.	Trauma from Occlusion	<ol style="list-style-type: none"> <li>Define <ul style="list-style-type: none"> <li>Acute &amp; Chronic trauma</li> <li>Primary &amp; Secondary trauma</li> <li>Discuss consequences of trauma</li> <li>iv) Describe tissue response to trauma</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>Lecture</li> <li>Tutorial</li> <li>Clinical Demonstration</li> </ol>	<ol style="list-style-type: none"> <li>BCQS</li> <li>OSCE</li> </ol>
3.	Relationship between periodontal disease and systemic health	<ol style="list-style-type: none"> <li>Discuss <ul style="list-style-type: none"> <li>Influence of Systemic Conditions on the Periodontium,</li> <li>Periodontal manifestation of Systemic diseases</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>Lecture</li> <li>Tutorial</li> <li>Clinical Demonstration</li> </ol>	<ol style="list-style-type: none"> <li>BCQS</li> <li>Assignment</li> </ol>
4.	Furcation involvement in Periodontal disease	Discuss classification and management of Furcation involvement in Periodontal disease	<ol style="list-style-type: none"> <li>Lecture</li> <li>Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>BCQS</li> <li>OSCE</li> <li>Assignment</li> </ol>
5.	Bone loss	<ol style="list-style-type: none"> <li>Describe <ul style="list-style-type: none"> <li>Bone destruction caused by extension of Gingival inflammation</li> <li>Bone destruction caused by Trauma from Occlusion</li> <li>Bone destruction caused by Systemic disorders</li> </ul> </li> <li>Discuss pattern of bone loss in periodontal disease: <ul style="list-style-type: none"> <li>Horizontal bone loss</li> <li>Vertical/angular bone loss</li> <li>Radiological findings in Periodontitis</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>Lecture</li> <li>Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>BCQs</li> <li>Assignment</li> </ol>
6.	Perio-Endo lesion	<ol style="list-style-type: none"> <li>Discuss: <ul style="list-style-type: none"> <li>Biologic effects of pulpal infection on periodontal tissues</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>Lecture</li> <li>Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>BCQS</li> <li>OSCE</li> <li>Assignment</li> </ol>

		<ul style="list-style-type: none"> <li>• Biologic effects of periodontal infection on dental pulp</li> </ul> <ol style="list-style-type: none"> <li>2. Differentiate between pulpal and periodontal infection</li> <li>3. Discuss the different treatment considerations</li> </ol>		
7.	Periodontal Abscess	<ol style="list-style-type: none"> <li>1. Differentiate between: <ul style="list-style-type: none"> <li>• Acute Periodontal Abscess</li> <li>• Chronic Periodontal Abscess</li> </ul> </li> <li>2. Discuss: <ul style="list-style-type: none"> <li>• Management and Treatment of Acute and Chronic Periodontal Abscess</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. OSCE</li> </ol>

## TREATMENT PLAN

S.NO.	TOPICS	LEARNING OBJECTIVES	MODE OF TEACHING	ASSESSMENT TOOLS
1.	Diagnosis of Cause Related Disease	<ol style="list-style-type: none"> <li>1. Discuss</li> <li>2. Diagnosis, Prognosis and Treatment Plan</li> <li>3. Demonstrate <ul style="list-style-type: none"> <li>• History taking</li> <li>• Examination of the Oral Cavity with emphasis on periodontitis</li> </ul> </li> <li>4. Formulating a list of Differential Diagnosis</li> <li>5. Recognize plaque using disclosing agents or naked eye</li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> <li>3. Clinical Demonstration</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>

		<p>6. Discuss treatment options</p> <ul style="list-style-type: none"> <li>• Mechanical control of Dental Plaque</li> <li>• Motivation, education and instruction.</li> <li>• Interdental cleaning</li> <li>• Scaling and root planning with advantages and disadvantages.</li> <li>• chemical control of dental Plaque</li> <li>• chemotherapeutic agents for topical and systemic administration</li> </ul>		
2.	Re-evaluation of Cause related therapy	<ol style="list-style-type: none"> <li>1. Describe surgical control of Dental Plaque</li> <li>2. Discuss peri-implantitis</li> <li>3. Discuss follow-up and further management of Dental Plaque</li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>
3.	Aims and objectives of periodontal therapy	<ol style="list-style-type: none"> <li>1. Discuss: <ul style="list-style-type: none"> <li>• Local Anesthesia in Periodontal Surgery</li> <li>• Use of Instruments for periodontal surgery procedures</li> <li>• Periodontal probing impact</li> <li>• Radiographic interpretation</li> <li>• iv. Sterilization and universal precautionary measures</li> </ul> </li> </ol>	1. Lecture	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>

4.	Surgical Procedures	<ol style="list-style-type: none"> <li>1. Describe: <ul style="list-style-type: none"> <li>• Curettage</li> <li>• Gingivectomy with different modalities</li> <li>• Flap Surgery with different modalities</li> <li>• Mucogingival surgeries</li> </ul> </li> <li>2. Discuss: <ul style="list-style-type: none"> <li>• Soft tissue graft</li> <li>• Pedicle graft or displaced flap</li> <li>• Free gingival graft</li> <li>• Crown lengthening procedure</li> <li>• Vestibular widening procedure</li> <li>• Frenectomy</li> </ul> </li> <li>3. Discuss: <ul style="list-style-type: none"> <li>• Indications and contra indications of periodontal surgery</li> <li>• Periodontal dressing</li> <li>• Periodontal Suturing</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> <li>2. Tutorial</li> <li>3. Clinical Demonstration</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> <li>3. OSCE</li> </ol>
5.	Periodontal treatment of medically compromised patients	<ol style="list-style-type: none"> <li>1. Describe oral and Periodontal manifestations of HIV infection</li> <li>2. State complications of dental treatment in medically compromised patients</li> <li>3. Discuss periodontal treatment protocol in <ul style="list-style-type: none"> <li>• Cardiovascular diseases</li> <li>• Endocrine disorders</li> <li>• Hemorrhagic disorders</li> <li>• Medications and Cancer therapies</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Lecture</li> </ol>	<ol style="list-style-type: none"> <li>1. BCQS</li> <li>2. Assignment</li> </ol>



6.	Periodontal consideration with other fields of dentistry	1. Describe periodontal considerations needed while working on patients undergoing any of these: <ul style="list-style-type: none"> <li>• Orthodontics</li> <li>• Endodontics</li> <li>• Removable Prosthodontics</li> <li>• Fixed Prosthodontics</li> <li>• Implants</li> </ul>	1. Lecture	1. BCQS 2. Assignment
7.	Reconstructive Periodontal Surgery:  GTR (Guided Tissue Regeneration) &  GBR (Guided Bone Regeneration)	1. Define Reconstructive Periodontal Surgery 2. Discuss: <ul style="list-style-type: none"> <li>• Clinical methods of GTR</li> <li>• Reconstructive surgical techniques</li> </ul>	1. Lecture	1. BCQs 2. Assignment 3. OSCE
8.	Occlusal Analysis	1. Discuss: <ul style="list-style-type: none"> <li>• Occlusal function and dysfunction</li> <li>• Parafunction</li> <li>• Occlusal therapy (splinting)</li> </ul>	1. Lecture	1. BCQs 2. Assignment

## PERIODONTOLOGY CLINICAL ROTATION

S. NO.	CLINICAL AND PROCEDURAL SKILLS	TEACHING METHODOLOGY	ASSESSMENT TOOLS
	<p><b>By the end of the clinical rotation the third year BDS student should be able to demonstrate the following:</b></p>		<p><b>The students will be assessed mid-rotation and end-of rotation tests; mid-term and final examination through:</b></p>
<b>1.</b>	General information on OPD rules	1. Chair side teaching	1. OSCEs
<b>2.</b>	Explain periodontal anatomy on models/figures	2. Teaching on phantom teeth	2. Chair-side viva
<b>3.</b>	History taking and clinical examination (demonstration on patient)	3. Teaching in radiology department	3. Direct observation of clinical skills
<b>4.</b>	Periodontal examination (using different probes on models)	4. Supervised work on patients	4. Direct observation of procedural skills
<b>5.</b>	Plaque index and gingival index (on models)		Will be assessed:
<b>6.</b>	Furcation grades (on phantom teeth)		1. Daily supervision
<b>7.</b>	Radiographic findings (peri-apical, bitewing, OPG and occlusal)		2. Mid-rotation test
<b>8.</b>	Oral hygiene aid, plaque control, antimicrobial agents, toothpastes, method of writing prescription		3. End-of rotation test (Ward test)
<b>9.</b>	Revision of tooth numbering system and charting		

<b>10.</b>	Instruments and chair position-demonstration		
<b>11.</b>	Demo on manual scaling		
<b>12.</b>	Demo on ultrasonic scaling		

## DEPARTMENTAL RESOURCE BOOKS

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S.NO	NAME	AUTHOR	EDITION
1.	Newman's and Carranza Clinical Periodontology	Newman Carranza	and 13 <sup>th</sup> Edition

# JINNAH MEDICAL AND DENTAL COLLEGE

## 3RD YEAR BDS PERIODONTAL DEPARTMENT ROTATION

### Orientation Session:

- Introduction to department
- Introduction to demonstrators/lecturers
- Effective communication
- Code of conduct
- OPD timings (Punctuality)
- Dress code
  - Lab coat
  - Tied-up hair
  - Close shoes etc.
- Hand wash technique
- Briefing about:
  - Dental units,
  - Instruments,
  - Diagnosis and
  - Patients' record maintenance
  - Log-book maintenance
- List of instruments required by the students
- Cross infection control
- Quota requirements
  - Manual Scaling
  - Ultrasonic Scaling

## CLINICAL ROTATION SCHEDULE OF 3RD YEAR BDS

- Total months: 10
- Clinical timings: 10:30-1:30 pm
- No of groups: 2 (AB and CD)

### WEEK 1

#### Day 1

- 10:30 AM to 11:30 AM (Orientation)
- 11:30 AM to 1:00 PM (general OPD rules)
- 01:00 PM to 01:30 PM (course information)

#### Day 2

- 10:30 AM to 11:30 AM (Periodontal anatomy)
- 11:30 AM to 1:00 PM (Periodontitis gingivitis)
- 01:00 PM to 01:30 PM (Periodontal and classification)

#### Day 3

- 10:30 AM to 11:30 AM (History taking demo)
- 11:30 AM to 1:00 PM (Periodontal examination)
- 1:00 PM to 01:30 PM (History taking of patients under supervision)

Demonstrator	Lecture Topic	Timings 10:30-11:30	Timings 11:30-1:00	Timings 1:00-1:30
D1	Orientation	Orientation	OPD rules	course information
D2	Periodontal anatomy	Periodontal anatomy	Periodontitis and gingivitis	Periodontitis Classification
D3	History taking	History taking demo	Periodontal examination	History taking on patients

## WEEK 2

### Day 1

- 10:30 AM to 11:30 AM (Plaque index)
- 11:30 AM to 1:00 PM (Gingival index)
- 01:00 PM to 01:30 PM (History taking and Plaque index on patients under supervision)

### Day 2

- 10:30 AM to 11:30 AM (Furcation grades)
- 11:30 AM to 1:00 PM (History and examination on patients)
- 01:00 PM to 01:30 PM (log book checking)

### Day 3

- 10:30 AM to 11:30 AM (Radiograph types)
- 11:30 AM to 1:00 PM (Radiographic findings)
- 01:00 PM to 01:30 PM (Observe patient radiographs)

Demonstrator	Lecture topic	Timings 10:30-11:30	Timings 11:30-1:00	Timings 1:00-1:30
D1	Indices	Plaque index	Gingival index	History and plaque index on patient
D2	Furcation grades	Furcation grades	History and examination on patients	Logbook checking
D3	Radiograph types	Radiograph types	Radiographic findings	Observe patient radiographs

### WEEK 3

#### Day 1

- 10:30 AM to 11:30 AM (Periodontal treatment plan)
- 11:30 AM to 1:00 PM (Instruments)
- 01:00 PM to 01:30 PM (log book checking)

#### Day 2

- 10:30 AM to 11:30 AM (Plaque control)
- 11:30 AM to 1:00 PM (Oral hygiene aids, Plaque control, Antimicrobial agents, toothpastes)
- 01:00 PM to 01:30 PM (Prescription writing and log book checking)

#### Day 3

- 10:30 AM to 11:30 AM (Gingival curettage)
- 11:30 AM to 1:00 PM (Gracey Curettes numbering and uses)
- 01:00 PM to 01:30 PM (Method of using curettes)

<b>Demonstrator</b>	<b>Lecture topic</b>	<b>Timings from 10:30-11:30</b>	<b>Timings from 11:30-1:00</b>	<b>Timings from 1:00-1:30</b>
D1	Periodontal Treatment plan	Periodontal treatment plan	Instruments	Logbook
D2	Plaque control	Plaque control	Oral hygiene aid Prescription writing	Prescription writing and Logbook
D3	Gingival curettage	Gingival curettage	Gracey Curettes numbering	Method of using curettes and Logbook



## WEEK 4

### Day 1

- 10:30 AM to 11:30 AM (Patient history)
- 11:30 AM to 1:00 PM (Patient history and examination)
- 01:00 PM to 01:30 PM (log book checking)

### Day 2 and 3

- Ward test

<b>Demonstrator</b>	<b>Lecture topic</b>	<b>Timings 10:30-11:30</b>	<b>Timings 11:30-1:00</b>	<b>Timings 1:00-1:30</b>
D1	How to take patient history	Patient history practical	Patient Examination	Logbook
D2	Ward test			
D3	Ward test			

# JINNAH MEDICAL AND DENTAL COLLEGE

## 3<sup>RD</sup> YEAR CLINICAL PERIODONTOLOGY ROTATION

Clinical hours Practical: 125

### Objective:

By the end of the clinical rotation the 3<sup>RD</sup> year BDS students should be able to demonstrate the following clinical and procedural skills:

	Clinical and Procedural Skills	Teaching Methodology	Assessment tools
1.	Periodontal anatomy and tooth numbering systems and charting	<ul style="list-style-type: none"> <li>Chair side teaching</li> <li>Teaching on phantom teeth</li> <li>Teaching in radiology department</li> <li>Supervised work on patients</li> </ul>	<ul style="list-style-type: none"> <li>OSCEs</li> <li>Chair-side viva</li> <li>Direct observation of clinical skills</li> <li>Direct observation of procedural skills</li> </ul> <p>Will be assessed:</p> <ul style="list-style-type: none"> <li>Daily supervision</li> <li>Mid-rotation test</li> <li>End-of rotation test (Ward test)</li> </ul>
2.	Instruments and chair positioning		
3.	History taking and clinical examination of patients		
4.	Periodontal examination (using different probes on models)		
5.	Periodontal examination (using different probes on patients) <ul style="list-style-type: none"> <li>CPITN</li> <li>Michigan-Williams</li> </ul>		
6.	Plaque index and gingival index		
7.	Furcation grading		
8.	Radiographic findings (peri-apical, bitewing, OPG and occlusal)		
9.	Students' group presentation on oral hygiene aids, plaque control, antimicrobial agents, toothpastes.		
10.	Prescription writing		
11.	Manual scaling		
12.	Ultrasonic scaling		

