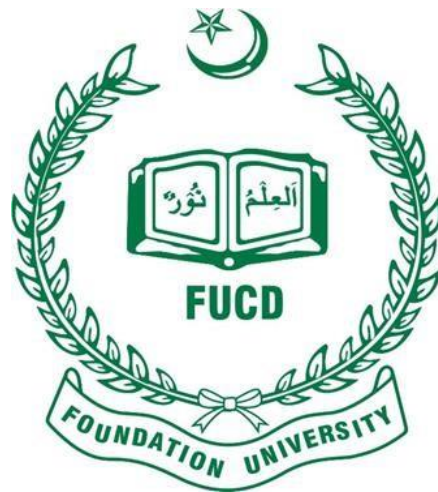


# **FOUNDATION UNIVERSITY COLLEGE OF DENTISTRY**



## **Preclinical Operative Dentistry Student's Study Guide 3rd year B.D.S**

## **MISSION:**

Equip students with necessary knowledge, skills and attitudes to competently and empathetically provide restorative and endodontic treatment to the patients of their community.

## **INTRODUCTION:**

Operative Dentistry is a field of dentistry that deals with the management of teeth, that are defective through disease, trauma, wear, and/or abnormal development, or are unesthetic, to restore a state of normal form, function, health, and appearance. The practice of dentistry in this area requires a wide range of knowledge, from diagnosis, disease processes and prevention, and minimally invasive clinical approaches; to biomaterials and other dental science disciplines as they apply to this distinct and unique interest area limited to the hard calcified tissues of the oral cavity.

The need for restructuring the Preclinical Operative Dentistry aroused from the stark difference in clinical skills of graduate from dental colleges of our country and abroad. The aim of Preclinical Operative Dentistry is to build understanding of the principles that governs the safe treatment of patient receiving direct restorations. The main stays of the course are introduction to theoretical concepts and developing manual dexterity of the students.

The course content of third year BDS preclinical Operative dentistry is aimed at enhancing the cavity preparation skills taught in second year. While introducing the fundamental principles of cavity preparation, this course also aims at developing student's manual skill and dexterity to prepare complex cavity designs like class II, class I compound and class IV.

## **LEARNING OUTCOME:**

At the end of the course the students of 3<sup>rd</sup> year will be able to:

- Demonstrate the hand eye coordination required for carrying out operative procedures
- Demonstrate the different operator positions, instrument grips and patient positions required to perform different cavity preparations
- Perform the cavity preparation of different cavity forms for amalgam restoration.
- Perform the cavity preparation for anterior composite restorations
- Summarize basics of radiographic techniques and the principles of radiation protection
- Recognize different types of intra-oral radiographs in different clinical situations

## **TEACHING AND LEARNING METHODOLOGIES:**

Teaching and learning methods are primarily focused more on promoting learning through active participation of the learner. The student performs set of manual skills under supervision on phantom head, while actively seeking guidance and performance feedback from faculty.

## **TEACHING & LEARNING MODALITIES**

In third year BDS the students undergo their dental rotations in a small groups, the format of teaching is Small Group Interactive Sessions (SGIS).

Following teaching modalities will be used for teaching third year Preclinical Operative Dentistry course:

1. demonstrations on typodont of phantom head by supervisors
2. Video demonstrations
3. Formative supervised learning events in clinical settings such as DOPS (direct Observation of procedural Skills)

## **TEACHING AIDS:**

The preclinical Operative Dentistry course will be taught using video demonstrations, live demonstrations and presentations. The hands on training will be conducted on typodonts of phantom heads at Multidisciplinary lab on first floor of FUCD.

## **FACULTY OF OPERATIVE DENTISTRY DEPARTMENT:**

### **HEAD OF THE DEPARTMENT**

Associate Professor Dr Nadia Aman (BDS, MSC, FCPS)

### **FACULTY**

Associate professor Dr. Mansoor khan (B.D.S, F.C.P.S)

Assistant professor Dr. Atika Sagheer (B.D.S, F.C.P.S)

Demonstrator Dr. Esha Yousaf

Demonstrator Dr. Ayesha Azam

### **COURSE OUTLINE**

<b>List of Practicals</b>	<b>Learning out come</b>	<b>Teaching strategy</b>	<b>Assessment method</b>
<b>1. Operative Dentistry I</b> Class I , III, V cavity preparation further exercise	To demonstrate preparation of class I, II and V cavity on ivory teeth. To demonstrate appropriate posture and position during cavity preparation.	Demonstration	DOPS  OSPE
<b>2. Operative Dentistry II</b> Class I compound cavity preparation	To perform class I compound on ivory teeth	Demonstration	DOPS
<b>3. Operative Dentistry III</b> Class II cavity preparation for amalgam restorations	To perform class I compound on ivory teeth	Demonstration	OSPE
<b>4. Operative Dentistry IV</b> Class IV cavity preparation for composite cavity	To perform class I compound on ivory teeth	Demonstration	

## **ASSESSMENT:**

1. All manual skill tasks are introduced in a manner of increasing difficulty to ensure better training, assessment of competence of skill is formative and summative.
2. Each task is directly assessed by the faculty while being performed by students and it is graded in log book on completion (formative assessment).
3. Summative assessment is performed during last week of rotation to assess the skill learned during rotation. In this summative assessment student undergoes practical exam to perform skill task, which is graded on Rubric given in log book.

## **RECOMMENDED REFERENCE MATERIAL:**

1. Pickard's Manual of Operative Dentistry. Avijit Banerjee, Huia Masters Pickard, Timothy F. Watson. 2011 . Oxford press.
2. Atlas of Operative Dentistry: Preclinical and Clinical Procedures. Joseph R. Evans, Jon H. Wetz, Roy A. Wilko. Quintessence, 1985

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