

FOUNDATION UNIVERSITY COLLEGE OF DENTISTRY



Preclinical Operative Dentistry

Study Guide

2nd 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 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 Preclinical Operative Dentistry course taught at Foundation University College of Dentistry has been restructured keeping in mind the need for basic skill training of a dental student who will treat patients in final year of his/ her studies. The content of the 2nd Year Pre-Clinical Operative Dentistry course will enable students to learn in a safe, simulated setting. Students will learn to assess & document findings, achieve chairside ergonomics and acquire skill of manual dexterity and hand-eye coordination necessary for most clinical operative dentistry procedures.

LEARNING OUTCOMES:

By end of Second year BDS Preclinical Operative Dentistry course the students will be able to:

- Demonstrate proper position & posture for performing procedure on different quadrants of phantom head.
- Demonstrate modified pen grip for holding instrument and handpeice
- Document patient history and photographic records
- Perform extra oral and intraoral examination of patient.
- Describe Basic periodontal examination of a patient.
- Identify different classes of GV black caries classification
- Demonstrate ability to prepare class I cavity and its variant on posterior and anterior ivory teeth for placing an amalgam restoration
- Demonstrate ability to prepare class V and Class III cavity on anterior teeth on typodont
- Enumerate steps of amalgam and composite restoration

TEACHING & LEARNING MODALITIES

In Second 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 of this 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 the first floor of FUCD.

FACULTY OF OPERATIVE DENTISTRY DEPARTMENT:

HEAD OF THE DEPARTMENT

Professor Dr Nadia Aman (BDS, MSC, FCPS)

FACULTY

Assoc. 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:

Practical		Learning objectives	Teaching & Learning Method	Assessment
1	History taking	<p>The student should be able to</p> <ul style="list-style-type: none">• Describe know different components of patient history• Perform documentation of history of patient presenting for dental treatment.	LGIS Demo	Formative assessment of completed tasks MCQs OSPE
2	Clinical examination	<ul style="list-style-type: none">• Enlist steps of extra & intra oral examination• Document findings of extra & intra oral examination	LGIS Demo	Formative assessment of completed tasks MCQs OSPE
4	Dental photography	<ul style="list-style-type: none">• Enlist armamentarium for dental photography• Describe advantages & indications of dental photography.• Perform intra & extra oral photographs of a patient	SGIS Demo	Formative assessment of completed tasks MCQs

5	Ergonomics	<ul style="list-style-type: none"> • Demonstrate posture & position for dental procedure • Demonstrate instrument grip • Enlist hand instrument for cavity preparation and parts of hand instruments. • Identify types of bur 	SGIS Demo	DOPS MCQs OSPE
6	Preclinical Skills I PCS I	<ul style="list-style-type: none"> • Perform outline form of an ideal amalgam class I cavity for mandibular molar • Demonstrate class I cavity for mandibular premolar • Perform class I cavity for maxillary premolar using indirect vision • Demonstrate buccal and palatal pit class I cavity preparation • Describe dimension of prepared class I cavity • Enlist steps of amalgam restoration. • Perform restoration of cavity with amalgam. 	SGIS Demo	DOPS MCQs OSPE
	PCS II	<ul style="list-style-type: none"> • Demonstrate outline form of class V cavity on maxillary premolar and incisor on typodont. • Describe dimensions and outline of class V cavity 	SGIS Demo	DOPS MCQs OSPE
	PCS III	<ul style="list-style-type: none"> • Perform class III cavity of maxillary central incisor • Demonstrate indirect vision for cavity preparation. • Describe steps of composite restoration • Discuss incremental placement of composite and curing of composite 	SGIS Demo	DOPs MCQs OSPE

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.
2. Each task is directly assessed by the faculty while being performed by students and it will be graded in log book on completion (formative assessment).
3. The theoretical component is assessed as summative assessment during Send up exam and Annual exam as 10 mcqs.
4. Practical component is assessed by 5 TOACS in practical exam component of Community dentistry in send up and annual exam.

RECOMMENDED READING 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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