



**Course content (first term)2022-2023**

WEEK	ILO`s	Topics covered	Assigned academic staff member (Instructors & facilitators)
1- Course orientation, clinic rules and chair positioning			Prof. Heba Hamza
2- Holistic approach in patient assessment and infection control-communicating skills	a1-Discover the importance of patient reception and infection control. a2-Define the examination procedures and diagnostic decisions according to various clinical diagnostic aids. a6-Understand health hazards in restorative dentistry. b1- Asses his/ her examination and diagnostic skills during practical sessions.	<ol style="list-style-type: none"> <li>1. Paradigm shift in dental caries</li> <li>2. Mouth body connection</li> <li>3. Risk factors of dental caries</li> <li>4. Types of communication</li> <li>5. Communication skills</li> <li>6. Infection control</li> <li>7. Patient reception</li> <li>8. Chair position and lightening</li> </ol>	Dr. Engy Mostafa
3- Diagnosis Vs. Detection	b1-Asses his/ her examination and diagnostic skills during practical sessions. b3- Report various carious defect and compare several restorative techniques.	<ol style="list-style-type: none"> <li>1. Know the importance of an informed consent of the patient</li> <li>2. Understand the approach to the dental patient assessment</li> </ol>	Prof. Elham Fawzy
4- Diagnosis Vs. Detection	b1-Asses his/ her examination and diagnostic skills during practical sessions. b3- Report various carious defect and compare several restorative techniques.	<ol style="list-style-type: none"> <li>3. Learn the basis for dental patient examination</li> <li>4. Identify and compare different examination tools</li> <li>5. Identify the symptoms and signs of dental lesions</li> <li>6. Compare between detection and diagnosis for carious lesion</li> <li>7. Learn and propose different diagnostic tools</li> <li>8. Diagnose different tooth structure defects</li> <li>9. Develop a decision tree flow for a dental patient</li> <li>10. Formulate treatment planning</li> <li>11. Recommend treatment decision making</li> </ol>	Prof. Elham Fawzy
5- Moisture Control of the Operative Field	a5- Recognize and assess different techniques of moisture control.	<ol style="list-style-type: none"> <li>1. Sources of moisture in the clinical environment</li> <li>2. Reasons for moisture control</li> <li>3. Methods of Moisture control</li> </ol>	Dr. Mohamad Refaat



6-Introduction to Adhesion	a4- Identify and differentiate different types and strategies of adhesive systems and dental adhesion. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives	<ol style="list-style-type: none"> <li>1. <b>Definitions</b></li> <li>2. <b>Advantages and clinical significance of adhesion</b></li> <li>3. <b>Mechanisms of adhesion involved in dentistry</b></li> <li>4. <b>Requirements for adhesion</b></li> <li>5. <b>Types of dental adhesives</b></li> <li>6. <b>Fundamental principle of adhesion to tooth substrate:</b></li> <li>7. <b>Challenges in bonding to dental substrates:</b></li> <li>8. <b>Strategies of adhesion</b></li> <li>9. <b>Classification of Adhesives (Bonding Agents)</b></li> </ol>	Dr. Mohamad Refaat
7- Dental Cariology	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques.	<ol style="list-style-type: none"> <li>1. <b>Classification of dental caries</b></li> <li>2. <b>Clinical appearance and histopathology of dental caries</b></li> <li>3. <b>Diagnosis of dental caries</b></li> <li>4. <b>Recent diagnostics tools</b></li> <li>5. <b>Etiology of dental caries</b></li> <li>6. <b>Caries risk assessment</b></li> </ol>	Prof.Omaima Safwat
9- Dental Cariology	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques.	<ol style="list-style-type: none"> <li>4. <b>Recent diagnostics tools</b></li> <li>5. <b>Etiology of dental caries</b></li> <li>6. <b>Caries risk assessment</b></li> </ol>	Prof.Omaima Safwat
10- Minimal Invasive dentistry	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives	<ol style="list-style-type: none"> <li>1. <b>Levels of prevention</b></li> <li>2. <b>Strategies of prevention</b></li> <li>3. <b>Non-invasive management</b> <ol style="list-style-type: none"> <li>a) <b>Caries prevention by modification of diet</b></li> <li>b) <b>Dietary guideline for prevention of dental caries</b></li> <li>c) <b>Caries management by modifying the biofilm</b></li> <li>d) <b>Remineralization</b></li> <li>e) <b>Sources of fluoride</b></li> <li>f) <b>Remineralizing agents</b></li> </ol> </li> <li>4. <b>Micro-invasive management</b> <ol style="list-style-type: none"> <li>1. <b>Pits and fissure sealing</b></li> <li>2. <b>resin infiltration</b></li> <li>3. <b>Preventive resin restoration</b></li> </ol> </li> </ol>	Prof.Omaima Safwat
11- Minimal Invasive dentistry	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives	<ol style="list-style-type: none"> <li>4. <b>Micro-invasive management</b> <ol style="list-style-type: none"> <li>1. <b>Pits and fissure sealing</b></li> <li>2. <b>resin infiltration</b></li> <li>3. <b>Preventive resin restoration</b></li> </ol> </li> </ol>	Prof.Omaima Safwat
12- Minimal Invasive dentistry	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives		Prof.Omaima Safwat



<p>13- Selection and decision making</p>	<p>a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques. b2-Apply suitable treatment alternatives. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives</p>	<p><b>1. Requirements for an ideal restoration</b> <b>2. Factors influencing selection of the suitable restorative material:</b>     <b>I. Factors concerning the available restorative materials.</b>     <b>II. Factors concerning the patient.</b> <b>a) Factors related to the general condition of the patient.</b> <b>b) Factors related to the oral cavity.</b> <b>c) Factors concerning the tooth to be restored.</b> <b>d) Factors related to the cavity to be restored.</b>     <b>III. Factors related to the operator.</b> <b>3. Decision making in restorative dentistry</b></p>	<p><b>Prof. Ahmed EL-Hoshy</b></p>
<p>14- Selection and decision making</p>	<p>a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques. b2-Apply suitable treatment alternatives. b3- Report various carious defect and compare several restorative techniques. c2-Choose suitable treatment alternatives</p>	<p><b>1. Requirements for an ideal restoration</b> <b>2. Factors influencing selection of the suitable restorative material:</b>     <b>I. Factors concerning the available restorative materials.</b>     <b>II. Factors concerning the patient.</b> <b>a) Factors related to the general condition of the patient.</b> <b>b) Factors related to the oral cavity.</b> <b>c) Factors concerning the tooth to be restored.</b> <b>d) Factors related to the cavity to be restored.</b>     <b>III. Factors related to the operator.</b> <b>3. Decision making in restorative dentistry</b></p>	<p><b>Prof. Ahmed EL-Hoshy</b></p>



**Course content (second term)2022-2023**

WEEK	ILO`s	Topics covered	Assigned academic staff member (Instructor & facilitator)
1- Tooth Form and Occlusion	a10- Understand tooth form and occlusion.	<ol style="list-style-type: none"> <li>1. Why it is essential to study teeth relationship in restorative dentistry?</li> <li>2. Occlusion and Restorative Dentistry</li> <li>3. Importance of tooth form and occlusion</li> <li>4. Physiology of tooth form</li> <li>5. How the structure of enamel and dentin influence tooth preparation?</li> <li>6. How to distinguish dentin from enamel?</li> <li>7. How the structure of enamel and dentin influence cavity design?</li> <li>8. Principles of occlusion</li> <li>9. Features of an ideal occlusion</li> <li>10. What are the factors of occlusion affecting restorative dentistry?</li> </ol>	Ass.Prof.Enas El-ghandour
2- Management of deep caries	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques.	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of carious dentin</li> <li>3. Layers of carious dentine should be removed</li> <li>4. When to stop excavation</li> <li>5. Isolation is mandatory</li> <li>6. Strategies of caries removal</li> <li>7. Management of deep caries and pulp therapy</li> <li>8. Guidelines</li> </ol>	Dr Omar Shaalan
3- Post-Operative Pain and Hypersensitivity	a7- Identify techniques of control of pain in restorative dentistry. a8- State the causes of postoperative pain and causes of dental fear during and after restorative treatment.	<ol style="list-style-type: none"> <li>1. Causes of Post-Operative Sensitivity                             <ol style="list-style-type: none"> <li>a) Pre-operative causes</li> <li>b) Intra-operative causes</li> <li>c) Post-operative causes</li> </ol> </li> <li>2. How to overcome causes of postoperative hypersensitivity</li> <li>3. Clinical picture of dentin hypersensitivity</li> <li>4. Etiology of dentin hypersensitivity</li> <li>5. Theories of dentin hypersensitivity</li> <li>6. Differential diagnosis of dentin hypersensitivity</li> <li>7. Management of dentin hypersensitivity</li> </ol>	Dr Heba-allah Ahmad
4- Post-Operative Pain and Hypersensitivity	a7- Identify techniques of control of pain in restorative dentistry. a8- State the causes of postoperative pain and causes of dental fear during and after restorative treatment.	<ol style="list-style-type: none"> <li>3. Clinical picture of dentin hypersensitivity</li> <li>4. Etiology of dentin hypersensitivity</li> <li>5. Theories of dentin hypersensitivity</li> <li>6. Differential diagnosis of dentin hypersensitivity</li> <li>7. Management of dentin hypersensitivity</li> </ol>	Dr Heba-allah Ahmad



5- Biological considerations	a9- Determine the biological influence of the various restorative procedures and materials used.	<ol style="list-style-type: none"> <li>1. Aim of biological basis of restorative dentistry                         <ol style="list-style-type: none"> <li>a) Health and vitality of tooth</li> <li>b) Integrity of investing structures</li> </ol> </li> </ol>	Prof.Rania Moassallam
6- Biological considerations	a9- Determine the biological influence of the various restorative procedures and materials used.	<ol style="list-style-type: none"> <li>2. Tooth structure (enamel, dentin-pulp organ)</li> <li>3. Sensitivity of dentin</li> <li>4. Primary attacking mechanisms</li> <li>5. Types of irritants</li> <li>6. Factors affecting the pulp response to restorative procedures and techniques                         <ol style="list-style-type: none"> <li>a) Degree of irritation</li> <li>b) Condition of the pulpal floor</li> <li>c) Remaining dentin thickness</li> </ol> </li> <li>7. Factors affecting severity of the pulpal response                         <ol style="list-style-type: none"> <li>a) Dentin permeability</li> <li>b) Dentin thickness</li> <li>c) Irritation quality of restorative material</li> </ol> </li> <li>8. Influence of restorative procedures on dentin-pulp organ</li> <li>9. Influence of restorative materials on dentin-pulp organ</li> <li>10. Factors affecting the gingival and periodontal tissues to restorative procedures and techniques                         <ol style="list-style-type: none"> <li>a) Influence of restorative procedures on gingival and periodontal tissues</li> <li>b) Influence of restorative materials on gingival and periodontal tissues</li> </ol> </li> </ol>	Prof.Rania Moassallam
8- Parameters of successful restoration	a3- Identify how to manage a variety of carious lesions and how to utilize several preventive and restorative techniques.	<ol style="list-style-type: none"> <li>1. Criteria of a successful restoration                         <ol style="list-style-type: none"> <li>a) Mechanical</li> <li>b) Biological</li> <li>c) Esthetic</li> </ol> </li> <li>2. How to evaluate a dental restoration                         <ol style="list-style-type: none"> <li>a) USPHS criteria</li> <li>b) FDI criteria</li> </ol> </li> <li>3. Clinical tips for rubber dam isolation</li> <li>4. Clinical tips for posterior resin composite restorations</li> </ol>	Dr. Dina Ezz