



**МЕДИЦИНСКИ УНИВЕРСИТЕТ – ПЛОВДИВ** **MEDICAL UNIVERSITY – PLOVDIV**

Факултет по Дентална Медицина Faculty of Dental Medicine  
Катедра Оперативно Department of Operative  
зъбoлечение и Ендодонтия dentistry and Endodontics

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## **SYLLABUS ON OPERATIVE DENTISTRY AND ENDODONTICS STATE EXAM**

### **OPERATIVE DENTISTRY:**

1. Dental caries - etiological factors and pathogenesis.
2. Classifications and histopathological characteristics of dental caries.
3. Clinical symptoms and differential diagnosis of dental caries.
4. Methods of early diagnosis of dental caries - clinical characteristics of initial caries lesions and non-operative treatment.
5. Dentinal wound - characteristics and treatment. Pharmacodynamics of current medicaments.
6. Local anesthesia in operative dentistry and endodontics.
7. Non-aesthetic restorative materials - types, basic physical and chemical properties, indications and contraindications for usage.
8. Aesthetic obturation materials - types, basic physical and chemical features, indications and contraindications for use.
9. Infection control in operative dentistry and endodontics. Aseptics and antiseptics.
10. Factors affecting cavity margins.
11. Treatment of occlusal caries with amalgam, glass-ionomer cement and resin-composite materials. Occlusal forces and their neutralisation.
12. Treatment of approximal caries in premolars and molars with amalgam. Occlusal forces and their neutralisation.
13. Treatment of proximal caries in premolars and molars with glass-ionomer cement and composite materials. Analysis of occlusal forces and their neutralisation.
14. Treatment of proximal caries in premolars and molars with indirect obturation (cast-metal and tooth-coloured restorations) - inlay, onlay, overlay .
15. Treatment of proximal caries in incisors and canines with glass-ionomer cement and composite materials.
16. Treatment of cervical caries with amalgam, composite materials and glass-ionomer cement.
17. Biomechanical problems of cast-metal and amalgam restorations.

18. Biomechanical problems of glass-ionomer cement and resin-composite restorations.
19. Errors and complications in diagnosis and treatment of dental caries. Secondary caries.
20. Caries prevention in adults.
21. Non-caries cervical lesions (abrasio dentis, erosio dentis, usura cervicalis) - etiology, pathogenesis, clinical symptoms, and treatment.
22. Dental hypersensitivity.

#### ENDODONTICS:

23. Acute serous and acute purulent pulpitis - clinical symptoms, diagnosis, treatment.
24. Chronic ulcerous pulpitis. Chronic granulomatous pulpitis. Pulpitis chronica concrementosa - clinical appearance, diagnosis, treatment.
25. Clinical symptoms, diagnosis, differential diagnosis of reversible and irreversible pulpitis.
26. Vital pulp therapy of reversible pulpitis.
27. Non-vital pulp therapy – pulp extirpation with anesthesia (vital extirpation).
28. Critical analysis of non-vital pulp therapy with arsenic devitalisation of inflamed pulp.
29. Healing mechanism and periapical tissues repair in vital and non-vital pulp-therapy. Evaluation criteria – postoperative follow-ups and recalls.
30. Acute serous periodontitis and acute purulent periodontitis - clinical symptoms, diagnosis, differential diagnosis, and treatment.
31. Chronic periodontitis - clinical symptoms, diagnosis, differential diagnosis, treatment methods.
32. Shaping the root canal system - methods. Irrigation of the root canal system.
33. Errors and complications during the endodontic treatment.
34. Root canal obturation - goals, biological and mechanical requirements. Methods and instruments for obturation of the root canals with pastes.
35. Root canal obturation - goals, biological and mechanical requirements. Methods and instruments for obturation of the root canals with gutta percha cones.
36. Restoration of endodontically treated teeth - characteristics, post-and-core build-up, conservative restoration techniques.
37. Errors and complications in endodontic treatment.
38. Healing mechanism and periapical tissues repair in endodontic treatment of acute and chronic periodontitis. Evaluation criteria – postoperative follow-ups and recalls.
39. Endodontic retreatment.
40. Emergency endodontic treatment.

41. Difficult differential diagnosis in endodontics involving diseases of odontogenic and non-odontogenic origin.
42. Indications for endodontic surgery. Root amputation, replantation, and apical osteotomy.
43. Physical methods of diagnosis and treatment of dental caries and non-cariou lesions.
44. Physiotherapeutic methods of treatment of pulpitis and periodontitis.

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(Prof. St. Vladimirov, Head of Department)