

### **Operative Dentistry 1. Final exam. Thematic ranges.**

1. Examination in dentistry, definition of treatment plan. Documentation, state signs, patient informed consent. Communication with patient.
2. X-ray in dentistry, parallel technique, OPG, CBCT.
3. Histology of enamel, dentin, cement and periodontium. Pulp-dentin organ. Changes of hard dental tissues and dental pulp in old age.
4. Instruments and devices in dentistry. Dry operative field.
5. Carious cavities classification. Etiopathogenesis of tooth decay and inflammation of periodontal tissues.
6. Histological and clinical picture of caries of enamel, dentin and cement. Reaction of dental pulp.
7. Prevention in dentistry. Professional and home oral hygiene.
8. Diagnosis of tooth decay, caries incipiens. Miniinvasive treatment of dental caries. Recurrent and secondary caries.
9. Caries pulpaе proxima and caries ad pulpam penetrans. Direct and indirect pulp capping.
10. Dentin hypersensitivity. Etiology, development mechanism, treatment.
11. Noncarious defects: abfraction, attrition, abrasion, erosion. Combined noncarious lesions. Etiology, development mechanism, treatment, prevention.
12. General rules of cavity preparation. Resistance, macroretence and microretence of fillings. Mistakes. Preparation trauma.
13. Dentin wound protection, bases and liners. Temporary filling.
14. Adhesive preparation. Principles, adhesive systems. Adhesive filling materials.
15. Dental amalgam. Content, properties. Principles of cavity preparation for amalgam, working procedure.
16. Composite resins. Classification, properties, indications, contraindications, working procedure.
17. Glassionomer cements. Classification, properties, indications, contraindications, working procedure.
18. Compomer materials. Properties, indications, working procedure.
19. Treatment of frontal teeth decay. Materials, working procedure.
20. Treatment of premolars and molars decay. Materials, working procedure.
21. Examination in endodontics. Indications and contraindications of endodontical treatment.
22. General morphology of dental pulp. Types of root canals. Dental pulp anatomy of individual teeth.
23. Pathological changes of dental pulp. Classification of pulpitis. Etiology, histological and clinical picture, diagnosis, differential diagnosis, treatment.
24. Necrosis and gangraena of dental pulp, etiology, histological and clinical picture, diagnosis, differential diagnosis, treatment.
25. Pathological changes of apical periodontium. Classification of periodontitis. Etiology, histological and clinical picture, diagnosis, differential diagnosis, treatment.
26. General rules of root canal shaping. Mechanical-chemical shaping of root canal.
27. Instruments and devices in endodontics, rotary endodontics.
28. Irrigation solutions, technique of root canal irrigation.
29. Calcium hydroxide in dentistry and endodontics, disinfectant liner in endodontics.

30. Root canal filling. Techniques, materials.
31. Postendodontical treatment, meaning, procedure.
32. Pulp-periodontal diseases, classification, treatment.
33. Examination of patient with acute pain of odontogenic origin. Differential diagnosis.
34. Patients with general diseases in dental office. Metastatic opportunistic infection of odontogenic origin.
35. Hygiene of dental office, disinfection and sterilization. Care for instruments.