

## Questions for final exam from Endodontics (3-rd year)

### A. Endodontium

1. Pulp-dentinal organ (morphology and functions)
2. Periodontium (morphology and functions)
3. Pathomorphology and pathophysiology of dental pulp (classification)
4. Factors influencing dental pulp (infectious, physical, chemical)
5. Regressive and degenerative changes in dental pulp
6. Inflammation of dental pulp- histopathological classification
7. Pathological states of dental pulp (clinical classification)
8. The signs of reversibility and irreversibility in dental pulp diseases
9. Healthy and reversibly affected dental pulp
10. Irreversibly affected dental pulp
11. Etiology of dental pulp inflammation
12. Caries ad pulpam penetrans (diagnostics, treatment)
13. Clinical manifestations of dental pulp diseases
14. Clinical manifestations of pulpitis
15. Acute pulpitis (diagnostics)
16. Chronical pulpitis (diagnostics)
17. Necrosis of dental pulp (histopathology and clinical manifestations)
18. Gangraena of dental pulp (histopathology and clinical manifestations)
19. Pathomorphology and patophysiology of periodontium (classification)
20. Acute inflammation of apical periodontium
21. Chronical inflammation of apical periodontium
22. Pathomorphology and pathohistology of pulp-periodontal lesions
23. Classification of pulp-periodontal lesions
24. Clinical manifestations of pulp-periodontal lesions
25. Iatrogenic damages of dental pulp and apical periodontium

### B. Examination of patient in endodontics

1. Examination of patient in endodontics
2. Acute examination in endodontics
3. Test of tooth vitality
4. Additional methods of examination in endodontics
5. Radiographic examination in endodontics

### C. Treatment with maintenance of vital pulp

1. Caries pulpaе proxima
2. Indirect pulp capping (mechanism of healing, conditions)
3. Indirect pulp capping (working procedure)
4. Direct pulp capping (mechanism of healing, conditions)
5. Direct pulp capping (working procedure)
6. Pulpotomy (cervical and partial) with injection anaesthesia

### D. Morphology of root system

1. General anatomy of root system
2. Types of root canals
3. Anatomy of apex
4. Physiological and pathological changes of root morphology

**E. Instruments and devices in endodontics**

1. Standardization and classification of endodontical instruments
2. Sizes and colour signs of root instruments
3. Classification of endodontical instruments
4. Instruments for trepanation (access cavity) of pulp cavity
5. Instruments for widening of root canal's entry
6. Instruments for removing of content from pulp cavity and root canal
7. Instruments for root canal shaping
8. Instruments for rotary endodontics
9. Instruments for root canals filling
10. Apexlocator in endodontics

**F. Disinfectants in endodontics**

1. Irrigation of root canals (meaning, instruments, techniques)
2. Agents for root canal irrigation (requirements)
3. Disinfectious temporary root fillings
4. Agents for disinfectious temporary root fillings
5. Ca(OH)<sub>2</sub> in endodontics
6. Temporary fillings of crown
7. Pharmacology in endodontics (antibiotics, analgetics, anxiolythics, sedatives)

**G. Indications and contraindications for endodontical treatment**

1. Indication for endodontical treatment
2. Contraindications for endodontical treatment (classification)
3. Contraindications for endodontical treatment (from conservative view)
4. Endodontical treatment and focal infection

**H. Endodontical treatment**

1. Extirpation of dental pulp in injection anaesthesia
2. Mortal pulpectomy (principle, indications, agents, working procedure, current view)
3. Vital pulptomy (cervical and partial)
4. Anaesthesia in endodontics
5. Preparation of the tooth before trepanation (access cavity formation)
6. Isolation of working area
7. Rubber dam in endodontics
8. Access cavity formation
9. Probing of root canal (instruments, technique)
10. Extirpation of dental pulp
11. General rules of root canal shaping
12. Mechanical-chemical treatment of root canals, current view
13. Coronal flaring
14. Shaping of the middle and apical third of root canal
15. Technique of root canal shaping
16. Balanced force technique of root canal shaping
17. Methods of root canal shaping
18. Step back method
19. Working length in endodontics
20. Safe length in endodontics
21. Rotary endodontics
22. Complications in endodontics (classification)
23. Complications of root canal shaping
24. Prevention of complications in endodontics

## **I. Root canal filling**

1. Root canal filling and its function
2. Conditions for definitive root canal filling
3. Root canal filling materials (classification, requirements)
4. Sealers (classification, functions)
5. Gutta-percha in endodontics
6. Condensation methods of root canal filling
7. Method of root canal filling using lateral condensation of gutta-percha
8. Filling using warm gutta-percha
9. Technique of single cone
10. Criteria of successful endodontical treatment, check up
11. Root canal reendodontic treatment (indications)
12. Root canal reendodontic treatment (technique, risks)

## **J. Acute treatment in endodontics**

1. Acute states in endodontics (classification, general rules of treatment)
2. Treatment of pulpitis acuta
3. Treatment of periodontitis acuta (periodontal and enosseal phases)
4. Treatment of periodontitis acuta (subperiosteal and submucosal phases)
5. Flare up
6. Differential diagnostics of acute states in endodontics
7. Trauma of teeth

## **K. Postendodontical treatment**

1. Postendodontical treatment and its functions
2. Postendodontical treatment of anterior teeth
3. Postendodontical treatment of posterior teeth

## **L. Endodontical surgery**

1. Surgical procedures additional to endodontical treatment (classification, indication)
2. Drainage of periapical region
3. Periapical surgery and corrective surgery in endodontics
4. Endodontical microsurgery

## **M. Endodontical treatment of permanent teeth with incomplete development**

1. Morphology of the permanent teeth with incomplete development
2. Endodontical treatment of the permanent teeth with incomplete development
3. Working procedure of endodontical treatment of the permanent teeth with incomplete development