

## **CONSERVATIVE DENTISTRY WITH ENDODONTICS**

### **III DDS**

#### **Clinical exercises**

##### Introductory exercises 1.

Rules of the classes.

Principles of work ergonomics in conservative dentistry.

Rubberdam.

Materials used in conservative dental treatment.

Basic kit of dental instruments.

Minor instruments used in cariology and endodontics.

Dental instruments.

Procedures in the case of injury

##### Introductory exercises 2.

Medical and dental procedure: history taking, physical examination, diagnosis, prophylactic and therapeutical treatment plan, documentation.

Basic and additional examinations in conservative dentistry.

Patient information card – description.

Caries risk assessment, caries risk and caries activity, caries risk and caries treatment.

Individual prophylactic plan.

Diagnosis of caries risk and selection of prevention standards.

#### **Seminars**

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| <b>Seminar I.</b>   | <b>Medical and dental treatment: interview, examination object, diagnosis, documentation.</b> |
| <b>Seminar II.</b>  | <b>Dental tools used in conservative treatment.</b>   |
| <b>Seminar III.</b> | <b>Ergonomics in dentistry.</b>   |
| <b>Seminar IV.</b>  | <b>Materials used in the conservative treatment of teeth.</b>                                 |
| <b>Seminar V.</b>   | <b>Doctor-patient relationship.</b>   |

Seminar VI.	Etiology of dental caries: role of bacteria, carbohydrates, impact of morphology and chemical structure of dental hard tissue, time factor.
Seminar VII.	Caries prophylaxis: oral hygiene, diet, fluoride, protecting tooth surface with isolation layers. Fluorosis.
Seminar VIII.	Role of saliva in the carious process: organic and inorganic constituents of saliva, function of saliva, salivary tests. Dys-function of saliva secretion.
Seminar IX.	Enamel caries. Dentine caries. Types of dentine. Root cementum caries.
Seminar X.	Clinical course and classification of dental caries: acute and chronic caries; primary, secondary and atypical caries; hidden, rampant and circular caries. Early childhood caries. Classification of carious lesions according to progression of the process.
Seminar XI.	Diagnosis of caries: conditions and methods for diagnosing of early carious lesions, diagnosis of carious lesions within the crown and the root. New classifications of carious lesions.
Seminar XII.	Caries risk assessment, caries risk and caries activity, caries risk and caries treatment. Relationship of diagnostic information with selection therapeutic procedure.
Seminar XIII.	Prophylactic and therapeutic treatment plan
Seminar XIV.	Non-invasive caries treatment. Minimal-invasive caries treatment.
Seminar XV.	Black class I, II, and V. Preparation of carious lesions for non-adhesive fillings (amalgam). Preparation of carious lesions for adhesive fillings (adhesive amalgam, composites, compomers, ormocers and glass-ionomer materials). Clinical aspects of carious lesion preparation.
Seminar XVI.	Black class III and IV. Preparation of carious lesions for non-adhesive fillings (amalgam). Preparation of carious lesions for adhesive fillings (adhesive amalgam, composites, compomers, ormocers and glass-ionomer materials). Clinical aspects of carious lesion preparation.
Seminar XVII.	Black class I, II and V. Filling of cavities with non-adhesive (amalgam) and adhesive materials (composites, compomers, ormocers, glass-ionomer cements). Clinical aspects of carious cavities filling (sandwich method, inserts, layering techniques in lateral teeth restoration, indirect restorations).
Seminar XVIII.	Black class III and IV.

Filling of cavities with non-adhesive (amalgam) and adhesive materials (composites, compomers, ormocers, glassionomer cements). Clinical aspects of carious cavities filling. Methods of polymerisation

Seminar XIX.	Complications in the treatment of dental caries: complete loss of filling, secondary caries, evaluation of filling margin, filling replacement and correction, fracture of tooth or filling, post-treatment hypersensitivity. Making decision whether to repair or replace the filling.
Seminar XX	Dental hard tissue loss of non-carious origin – toothwear.

Midterms (multiple choice test):

1. Topics from the seminars I – V
2. Topics from the seminars VI – IV
3. Topics from the seminars X – XIV
4. Topics from the seminars XV – XX

## Literature

### Obligatory

1. Sturdevant's Art&Science of Operative Dentistry, 6th edition, Roberson T.M., Heymann H.O., Swift E.J., Mosby, St.Louis 2013,
2. Kidd E.A.M., Smith B.G.N., Watson T.F., Pickard's manual of operative dentistry, 8th edition, Oxford University Press, Oxford 2008,
3. Kidd E.A.M., Joyston-Bechel S., Essential of dental caries, 3rd edition, Oxford University Press, Oxford 2005,

### Recommended

4. O.Fejerskov, B. Nyvad, E.Kidd: Dental Caries: The Disease and its Clinical Management, 3rd Edition