

## **PERIODONTOLOGY IV<sup>th</sup> YEAR**

### **Interactive seminars**

1. Anatomy of marginal periodontal tissues. The role and function of the periodontal tissues in stomatognathic system. Regulation of tissue turnover in the periodontium (replay of the II and III year).
2. Etiologic determinants of periodontal disease. Dental plaque and bacterial biofilm. The role of host factors in periodontal disease. Risk factors for periodontal disease. Mechanisms of destruction of periodontal tissues
3. Clinical periodontal examination. Clinical and epidemiological indicators. Evaluation of the oral hygiene, the intensity and extent of inflammation, pocket depth and loss of connective tissue, loss of the intraradicular tissues, degree of tooth mobility. Protocol of the periodontal examination.
4. Diagnosis of periodontal disease. Contemporary periodontal classification. The influence of general diseases on periodontal tissues. Clinical differentiation of gingivitis and periodontitis, differentiation of periodontitis. Epidemiology of periodontal disease in Poland and abroad.
5. The etiology and diagnosis of periimplantitis. Radiological diagnosis of periodontitis. Microbiological, immunological and genetic tests in diagnosis of periodontitis. Determining the multifactorial risk profile of periodontal disease.
6. Methodology for assessing the relationship between the risk factor and disease. The relationship between periodontal inflammation and cardiovascular disease, diabetes, preterm birth and other general diseases. Periodontology based on evidence.
7. Prevention of periodontal disease with particular emphasis on ways to clean interdental spaces. Individualization of oral hygiene instruction. The use of antiseptics in the control of plaque. Treatment of gingivitis.
8. The methodology of classical non-surgical treatment of periodontitis, the basic treatment: scaling, root-planning and closed curettage - a repeat of the year III. Possibilities and limitations of non-surgical periodontal treatment.
9. Alternative protocols of non-surgical periodontal treatment: full mouth disinfection, local administration of chemotherapeutic agents, modulation of host response. Conservative treatment of periimplantitis.

10. Lasers in the non-surgical periodontal treatment. Photodynamic therapy in the treatment of periodontitis. New methods of the non-surgical periodontal treatment: ozone therapy, Vector system and others.
11. Management of acute periodontal lesions: treatment of ulcerative gingivitis, periodontal abscess and endo-perio lesions.
12. Modern instruments used in the non-surgical and surgical periodontal treatment. Sharpening hand tools. The mechanism of action of mechanical scalers. Transmission of infection during the non-surgical periodontal treatment.
13. Maintenance phase in the complex treatment of periodontitis.

### **Lectures**

1. Pathogenesis of periodontal diseases. Practical use of knowledge of the pathogenesis of periodontitis.
2. Contemporary classification and differential diagnosis of periodontal diseases.
3. Periodontal medicine actually.
4. Protocols of non-surgical periodontal therapy -a comparison of their efficacy. Restrictions for non-surgical periodontal treatment.
5. .Surgical periodontal treatment. Regeneration methods of periodontal tissues, possibilities and limitations.
6. Perioprosthodontics, perioorthodontics and implant treatment in patients with periodontal inflammation.
7. Algorithms of complex treatment of periodontitis.

### **Exercises**

1. Periodontal examination with oral hygiene instruction-10'
2. Estimation of the individual periodontal risk in multivariate model-2.
3. Removal of supragingival deposits -10'
4. Local anesthesia-5.
5. Subgingival scaling with rootplanning and closed curettage -5.
6. Elimination of excessive sensitivity of dentin-3.
7. Correction of incorrect fillings-3.

## Literature

Periodontics, 6<sup>th</sup> Edition, Eley B.M., Soory M., Manson J.D.

Periodontology, Herbert F.Wolf, Klaus H.Rateitschak