

## The Fifth Year Periodontology

### Introduction to clinical training

1. Pathogenesis of periodontal diseases, contemporary classification of periodontal diseases and peri-implant pathologies, clinical periodontal diagnosis- periodontal clinical chart, additional periodontal examinations, periodontal medicine- written replay of the fourth course year.
2. Initial periodontal therapy, mechanical and chemical supragingival plaque control, non-surgical therapy of periodontitis, contemporary non-surgical treatment protocols of periodontitis (clinical indications and limitations)– written replay of the fourth course year .
3. Periodontal surgery of periodontitis- indications, techniques in periodontal pocket surgery, general guidelines for resective periodontal surgery, contemporary surgical approach to intrabony defects, minimally invasive surgical technique.
4. Concepts in periodontal tissue regeneration. Barrier materials for regenerative surgery, bone replacement grafts, biologically active regenerative materials (enamel matrix derivatives, platelet-rich plasma and platelet-rich fibrin, growth factors), combination therapy. Factors affecting the clinical outcomes in intrabony defects.
5. Furcation-involved teeth- assessment and therapy- regeneration and resective surgical treatment, treatment planning protocols.
6. Periodontal plastic surgery- gingival augmentation, root coverage surgical procedures, interdental papilla reconstruction, surgical treatment of incorrect labial frenum.
7. Pathologic tooth migration. Specific orthodontic tooth movements in periodontitis. Specific orthodontic tooth movements in patients with

periodontitis. Periodontal regeneration and orthodontic treatment. Orthodontic treatment and periodontal plastic surgery.

8. Correct centric and eccentric occlusion. Trauma from occlusion- clinical dental and periodontal symptoms. Initial and secondary tooth mobility. Indications for selective tooth grinding, principles of occlusal adjustment by selective grinding of the biting surfaces. Indications and techniques of temporary tooth splinting.
9. Pre-prosthetic periodontal surgery- crown-lengthening procedures, surgical procedures for ridge augmentation (correction of soft tissue and bone defects) and preservation of soft tissue collapse following tooth extraction.
10. Provisional prosthetic restorations, achieving proper gingival contours by temporary bridges in the esthetic zone. Prosthetic treatment of patients with periodontitis- specific of fixed and removable prostheses.
11. Implants in patients with periodontitis- implants in the zone of esthetic priority and in the posterior dental arch. Planning of implant location. Surgical treatment procedures in periimplantitis.
12. Multidisciplinary treatment of stage IV periodontitis- decision making in patients with advanced periodontal problems, treatment sequences, advances and hopeless cases.
13. Topics to be chosen by students.

#### **Required literature**

1. H-P Mueller: Periodontology: the Essentials. Thieme, 2015.
2. K.S Kornman, M. Tonetti: Proceedings of the World Workshop on the Classification of Periodontal and Peri-implant Diseases and Conditions. J Periodontology, 2018, Special issue S1-S318.

#### **Recommended literature**

1. NP Lang, J. Lindhe: Clinical Periodontology and Implant Dentistry. Wiley Blackwell, seventh edition, 2021.
2. M. Newman: Essentials of Clinical Periodontology. Elsevier, first edition, 2021.

### **Seminars**

1. Periodontal wound healing. Surgical periodontal therapy. Resective and minimally invasive periodontal therapy (7.10).
2. Regenerative periodontal therapy. Indications and limitations for regenerative therapy. Biologically active regenerative materials (14.10).
3. Periodontal plastic surgery (21.10).
4. Pathologic tooth migration. Periodontics and orthodontics (28.10).
5. Pathologic tooth mobility. Indications and techniques of tooth splinting and grinding. Periodontics and prosthetic dentistry (4.11).

### **Practical procedures**

1. Periodontal examination with oral hygiene instruction - 10.
2. Subject periodontal risk assessment- 1.
3. Supragingival deposits removal- 5.
4. Correction of incorrect fillings - 2.
5. Local anesthesia - 5.
6. Non-surgical therapy of periodontitis- 5.
7. Assist in periosurgical procedures -2
8. Tooth splinting - 1.

Wrocław, September 19, 2022