



Three-year Postgraduate Program in Orthodontics - Curricula

Year One

1. Diagnosis in orthodontics

Clinical and functional examinations. Examining the harmony of face

Radiological diagnosis (OPG, lateral and AP cephalogram, occlusal and periapical radiography, skeletal age assessment by Hand X-ray and CVM methods)

Cephalometric analyses

Modell cast analysis

The Angle diagnostic system: advantage and disadvantage

2. Documentation in orthodontics. The rules and importance of photo documentation

3. Basic concepts of growth and development

4. Instruments and forceps in orthodontics

5. Biomechanical background of orthodontic treatment

6. Aetiology of malocclusion

7. Prevention in orthodontics

8. Interceptive orthodontics, early orthodontic treatment

9. Types, effects, indications and activation of removable appliances

10. Fixed appliances: structure, types and techniques

11. Dental hygiene for orthodontic patients

12. Myotherapeutic exercises

13. Patient treatment under tutor supervision and guidance: anamnesis, patient's written consent, treatment plan, appliance construction, applying simple, removable and functional (trainer) appliances, fixed appliances (multiband, hyrax, TPA etc.) bonding activation and debonding, applying retainer appliances, complex therapy during childhood.



Year Two

1. Diagnosis and treatment possibilities of dentoalveolar and skeletal anomalies
2. Complex individual treatment planning for dentoalveolar and skeletal anomalies, including treatment start and the length of treatment
3. Psychological aspects of orthodontics
4. Planning the retention for different treatment methods and techniques
5. Multibond techniques
6. Interdisciplinary treatment methods
7. Importance of anchorage: types and indications (e.g. orthodontic implants)
8. Extraoral appliances: theory and practice
9. Temporomandibular dysfunction: TMJ pathology, risks and therapy possibilities during orthodontic treatment
10. Planning and execution of dentoalveolar surgical interventions to support orthodontic treatments
11. Adult treatment
12. Patient treatment individually and under tutor supervision and guidance: planning and executing treatments for clinical patients



Year Three

1. Orthodontic treatment combined with orthognathic surgery
2. Model operations
3. Participation in the consultation and treatment of patients with cleft lip and palate
4. Syndromes combined with malocclusions
5. Causes of relapse, their elimination and the possibilities of prevention
6. The latest techniques in orthodontics (Lingual technique, aligners, self-ligating bracket systems and techniques: e.g. Damon system, etc.)
7. Comparing different types of fixed appliances, their advantages and challenges
8. Summarizing experiences with different removable appliances
9. The connection between orthodontics and other fields of dentistry. Advantages and possibilities of interdisciplinary treatment
10. Iatrogenic/deleterious effects of orthodontic treatment
11. Treatment of patients with special needs (e.g. injuries, hypodontia, hyperdontia etc.)
12. Case presentation of at least ten treatments of different anomalies carried out during the three years of the postgraduate program
13. During the three years of the program, participants follow the international publications in paediatric dentistry and orthodontics, and participate in specialty courses organized by Semmelweis University.