University of Pécs
Medical School

DENTISTRY
Major

STUDY PROGRAM
2017/2018

Subjects of the Clinical module (obligatory subjects and criterion requirements)

7th semester

8th semester

9th semester

10th semester

OSK-BE1-T INTERNAL MEDICINE 1

Course director: **DR. ISTVÁN WITTMANN**, professor
2nd Department of Internal Medicine and Nephrology Centre

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 100**

Prerequisites: **OSP-BPR-T completed + OSP-KO1-T completed + OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

During the course the following disciplines of internal medicine will be discussed: pulmonology, nephrology, hypertonology, diabetology and immunology. During the lectures and practices will be discussed the most important diseases of the above mentioned subdisciplines emphasizing the borders of internal medicine and dentistry, the oral signs of internal diseases, the diseases which affect the dental procedures, and the emergency treatments of the most important and common diseases. During the practices we would like to increase the communication skills in the patient-doctor and doctor and doctor relationship.

Conditions for acceptance of the semester

Maximum of 25 % absence allowed

Mid-term exams

Mid-term exams.

Making up for missed classes

In case of missing a class, certificate is needed. Missing more than 2 classes, extra classes needed for completing the semester.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  Suggested reading: Harrison Principles of Internal Medicine, latest edition
  Tools needed: stethoscope, white coat

Lectures

1 Hypertension (types, causes, diagnostics).
Dr. Kovács Tibor József

2 Hypertension (complications, treatment).
Dr. Kovács Tibor József

3 Nephrology I.
Dr. Kelényi Gáborné (Dr. Nagy Judit)

4 Nephrology II.
Dr. Kelényi Gáborné (Dr. Nagy Judit)

5 Nephrology III.
Dr. Csiky Botond

6 Diabetes mellitus (types, symptoms, diagnostics, complications).
Dr. Kovács Tibor József

7 Diabetes mellitus (treatment). Metabolic diseases.
Dr. Kovács Tibor József

8 Inflammatory diseases of the lung.(Pneumonia. Bronchopneumonia. Lung abscess.) Diseases of the pleura.
Dr. Márkné Dr. Sárosi Veronika

9 Asthma.
Dr. Márkné Dr. Sárosi Veronika

10 Chronic obstructive pulmonary diseases.
Dr. Márkné Dr. Sárosi Veronika

11 Tuberculosis. Lung cancer.
Dr. Márkné Dr. Sárosi Veronika

12 Anaphylaxis. Allergic diseases.
Dr. Czirják László István
13 AIDS. Autoimmune diseases. Systemic lupus erythematosus.
Dr. Czirják László István
14 Rheumatid arthritis. Systemic sclerosis. Sjögren syndrome.
Dr. Czirják László István

Practices

1 Hypertension (types, causes, diagnostics).
2 Hypertension (types, causes, diagnostics).
3 Hypertension (complications, treatment).
4 Hypertension (complications, treatment).
5 Nephrology I.
6 Nephrology I.
7 Nephrology II.
8 Nephrology II.
9 Nephrology III.
10 Nephrology III.
11 Diabetes mellitus (types, symptoms, diagnostics, complications).
12 Diabetes mellitus (types, symptoms, diagnostics, complications).
13 Diabetes mellitus (treatment). Metabolic diseases.
14 Diabetes mellitus (treatment). Metabolic diseases.
15 Inflammatory diseases of the lung.(Pneumonia. Bronchopneumonia. Lung abscess.) Diseases of the pleura.
16 Inflammatory diseases of the lung.(Pneumonia. Bronchopneumonia. Lung abscess.) Diseases of the pleura.
17 Asthma.
18 Asthma.
19 Chronic obstructive pulmonary diseases.
20 Chronic obstructive pulmonary diseases.
21 Tuberculosis. Lung cancer.
22 Tuberculosis. Lung cancer.
23 Anaphylaxis. Allergic diseases.
24 Anaphylaxis. Allergic diseases.
25 AIDS. Autoimmune diseases. Systemic lupus erythematosus.
26 AIDS. Autoimmune diseases. Systemic lupus erythematosus.
27 Rheumatid arthritis. Systemic sclerosis. Sjögren syndrome.
28 Rheumatid arthritis. Systemic sclerosis. Sjögren syndrome.

Seminars

Exam topics/questions

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Bekő Viktória (OKBFAA.A.JPTE), Dr. Fábián György (FAGHAAE.PTE), Dr. Kovács Tibor József (KOTMABO.PTE), Dr. Molnár Gergő Attila (MOGFABO.PTE), Dr. Sebők Judit (SEJFAAO.PTE), Dr. Szigeti Nóra (SZNMAAO.PTE)

OSK-CAA-T OPERATIVE DENTISTRY - CARIOLOGY

Course director: **DR. EDINA LEMPEL**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **3 – 20**

Prerequisites: **OSP-ORB-T completed + OSA-PF2-T completed + OSP-MI1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Basic information about the etiology, types, progression, diagnosis, prevention and treatment of carious lesions.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Making up for missed classes

Attending the classes, according to the rules of the Code of Studies and Examinations.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Topics of the oral presentations
- *Notes*
- *Recommended literature*

  Ole Fejerskov: Dental Caries

Lectures

1 Etiology and epidemiology of caries
Dr. Lempel Edina

2 Chemical interactions between teeth and oral fluids (demineralization, remineralization, erosion)
Dr. Lempel Edina

3 Physiological role of saliva in caries development and protection
Dr. Lempel Edina

4 Development, composition and features of dental plaque
Dr. Lempel Edina

5 Features of cariogenic microorganisms
Dr. Lempel Edina

6 Clinical and radiological diagnosis of caries
Dr. Lempel Edina

7 Classification of caries according to localization and progression
Dr. Lempel Edina

8 Development, progression, histological manifestation of enamel caries
Dr. Lempel Edina

9 Caries progression in dentin, histological manifestation
Dr. Lempel Edina

10 Features of root caries and treatment
Dr. Lempel Edina

11 Removing of caries; Reactions of pulp-dentin complex
Dr. Lempel Edina

12 Caries management
Dr. Lempel Edina

13 Caries prevention; importance of fluoride
Dr. Lempel Edina

14 Fissure sealing
Dr. Lempel Edina

Practices

Seminars

Exam topics/questions

1. Etiological factors of caries
2. Epidemiological changes of caries, importance of caries activity tests
3. Process of demineralization
4. Process of remineralization
5. Development of acquired pellicule and connection with saliva
6. Positive and negative effects of saliva in caries development
7. Development of dental plaque and its maturation
8. Biochemical processes in dental plaque
9. Features of cariogenic bacteria
10. Clinical diagnosis of caries
11. Radiological diagnosis of caries
12. Morphology of enamel caries
13. Morphology of dentin caries
14. Morphology of root surface caries
15. Reaction of pulp-dentin complex to progression and treatment of caries
16. Evaluation and treatment of caries risk groups
17. Treatment of different stages of caries
18. Fissure sealing
19. Importance of fluoride in caries prevention
20. Differences in development and treatment of caries and erosion

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-FE1-T ORTHODONTICS 1 - THEORY

Course director: **DR. GEJZA HERÉNYI**, clinical specialist
Department of Dentistry, Oral and Maxillofacial Surgery

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **1 – 100** *Prerequisites:* **OSA-PF2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Students have to learn the basics of craniofacial development and know the aetiology of orthodontic anomalies. They learn the diagnostic steps and procedures in orthodontics. The role of this subject is to teach students specific knowledge which they will be able to use as general dentists in order to provide favourable circumstances for the development of the masticatory system.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Attending the lectures is obligatory. A maximum of two missings is accepted. There are written exams in 7th and 14th weeks. The Midsemester Grade is calculated from the average of the results of the two exams.

Making up for missed classes

None.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Lecture notes will be uploaded on Neptun.
- *Notes*
- *Recommended literature*

Lectures

1 The subject of orthodontics.Introduction and terminology
Dr. Gurdán Zsuzsanna
2 Orthodontic anomalies and malformations
Dr. Gurdán Zsuzsanna
3 Aetiology of orthodontic anomalies
Dr. Gurdán Zsuzsanna
4 Diagnostic process: medical history and clinical examination
Dr. Gurdán Zsuzsanna
5 Diagnostic process: impressions and analysis of study models
Dr. Gurdán Zsuzsanna
6 Diagnostic process: radiography and photography
Dr. Gurdán Zsuzsanna
7 Written test
Dr. Gurdán Zsuzsanna
8 Cephalometry
Dr. Gurdán Zsuzsanna
9 Basics of orofacial development I.
Dr. Gurdán Zsuzsanna
10 Basics of orofacial development II.
Dr. Gurdán Zsuzsanna
11 Normal development of the jaws and dentition
Dr. Gurdán Zsuzsanna
12 Development leading to anomalies
Dr. Gurdán Zsuzsanna
13 Syndromes of the orofacial region
Dr. Gurdán Zsuzsanna

14 Written test
Dr. Gurdán Zsuzsanna

Practices

Seminars

Exam topics/questions

1. Definition of types of orthodontic anomalies
2. Aetiology of orthodontic anomalies
3. Steps of making an orthodontic diagnosis
4. Orthodontic model analysis
5. Cephalometry
6. Radiology in orthodontics
7. Development of face and jaws in the intrauterine life
8. Normal growth process from birth until complete development of the primary dentition
9. Normal growth of the jaws from the primary dentition to the end of development
10. Phases and prediction of development
11. Syndromes of the orofacial region

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-FL2-T PROSTHODONTICS 2

Course director: **DR. MÁRTA MÁRIA RADNAI**, professor
Department of Dentistry, Oral and Maxillofacial Surgery

6 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **28** lectures **+ 56** practices **+ 0** seminars = total of **84** hours

Course headcount limitations (min.-max.): **1 – 20**

Prerequisites: **OSP-FL1-T completed + OSP-ORR-T completed + OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Partial edentulousness is discussed in details focusing on the classification of partial and toothloss, principles in diagnostic procedures, treatment planning, therapeutic options and maintenance.

Conditions for acceptance of the semester

Requirements for students

- Active participation on lectures and practices, based on the Code of Studies and Examinations.

- Attendance of lectures and practices is mandatory.

- Completion of the tasks in the laboratory

Mid-term exams

Practice:

- Average of the marks receiving for the practical tasks in the training office. The average must be at least 2.0. If the student gets 3 or more failed marks during the semester for his/her practical work, then the semester can not be evaluated and accepted. The practical tasks, which are not finished, also considered as failed mark.

- Average of the marks of written or oral tests relating the theoretical knowledge which is necessary to carry out the practical work.

- Form of tests: oral test, written test, etc. If the test considered as failed, the student gets one opportunity to rewrite the test. If the student gets further failed mark, the semester/practice is not accepted, it can not be evaluated.

- If either of the above averages (for the practical work or the relating theory) does not reach 2.0 the end semester practical mark can not be evaluated and accepted, the student has to repeat the course.

- The student receives marks for the practical tasks. The averag

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*

  Radnai M: Removable Partial Denture, Medicina, 2012

- *Literature developed by the Department*

  lectures

- *Notes*

- *Recommended literature*

Lectures

1 Consequences of tooth loss.
Dr. Radnai Márta Mária

2 Anamnesis, examination and diagnosis planning for a partially edentulous patient.
Dr. Radnai Márta Mária

3 Classification of partially edentulous spaces according to Fábián-Fejérdy and international methods
Dr. Radnai Márta Mária

4 Requirements of prosthetic appliances
Dr. Radnai Márta Mária

5 Treatment of partially edentulous patients.
Dr. Radnai Márta Mária

6 Parts of removable partial denture (RPD) 1. base plate, saddle

Dr. Radnai Márta Mária
7 Parts of removable partial denture (RPD) 2. cast, clasp
Dr. Radnai Márta Mária
8 Types of cast clasps
Dr. Radnai Márta Mária
9 Infection control in prosthodontics
Dr. Radnai Márta Mária
10 WRITTEN ASSESSMENT
Dr. Radnai Márta Mária
11 Theoretical bases for the preparation of RPD I.
Dr. Radnai Márta Mária
12 Theoretical bases for the preparation of RPD II.
Dr. Radnai Márta Mária
13 Fabrication of cast clasp retained RPD, clinical and dental technical steps.
Dr. Radnai Márta Mária
14 Dental technician steps.
Dr. Radnai Márta Mária
15 The precision attachments.
Dr. Radnai Márta Mária
16 Fabrication of precision attachments retained RPD, clinical and dental technical steps.
Dr. Radnai Márta Mária
17 Telescopic crown retention, theory.
Dr. Radnai Márta Mária
18 Fabrication of telescopic crown retained RPD, clinical and dental technical steps
Dr. Radnai Márta Mária
19 Hybrid prosthesis, theoretical bases, indication
Dr. Radnai Márta Mária
20 Fabrication of a hybridprothesis I.
Dr. Radnai Márta Mária
21 Fabrication of a hybridprothesis II.
Dr. Radnai Márta Mária
22 Increasing the OVD with prosthetic methods
Dr. Radnai Márta Mária
23 Immediate and interim prosthesis, indication, fabrication
Dr. Radnai Márta Mária
24 WRITTEN ASSESSMENT
Dr. Radnai Márta Mária
25 Denture design for different cases
Dr. Radnai Márta Mária
26 Dental material and technology aspects of RPDs
Dr. Radnai Márta Mária
27 Case presentations
Dr. Radnai Márta Mária
28 Communication between dentist and technician
Dr. Radnai Márta Mária

Practices

1-56 Making fixed and removable prosthodontics depending on patient availability

Seminars

Exam topics/questions

1. Classification of partial edentulousness (international).
2. Classification of partial edentulousness according to Fábián-Fejérdy.
3. Definition of partial denture. Parts of the RPD.
4. Indications of preparing a RPD.
5. What is the support of the denture? What kinds of support do you know, properties
6. What is the rotational axis/fulcrum line? What are the types of rotational axis?
7. What is the lever/loading arm and resistance arm?
8. What are the properties of saddle close and saddle remote support?

9. What means retention? What is the difference between rigid and flexible retainer?
10. What means supporting area and loading area?
11. What means direct and indirect retainer?
12. Anamnesis, patient examination, and treatment planning in case of partial edentulousness.
13. Removable partial denture with acrylic base plate; properties and indication.
14. Features of drought wire and acrylic clasp, their indication
15. Materials of the removable and fixed/removable partial denture, what are the features of these materials?
16. Steps of precision and pick-up impressions in case of fixed/removable partial dentures. What are the requirements of the good impression?
17. Materials and their properties of precision and pick-up impression.
18. Definition of a retainer for a removable partial denture. What kinds of retainers do you know?
19. Parts of the cast clasp, and their function.
20. Function and characteristics of the minor connectors.
21. Cast clasps: form, indication, advantage and disadvantage.
22. Ney clasps: form, indication, advantage and disadvantage.
23. What are the requirements of a clasp holding tooth?
24. Indications of preparing a clasp holding crown.
25. What are the requirements towards the partial denture base plate? What are the tasks of the base plate?
26. What is the function of the saddle of the RPD?
27. Advantages of metal framework comparing acrylic base plate of removable partial denture.
28. Aspects of RPD design, shapes of major connectors
29. Clinical and technical steps of the preparation of a clasp retained RPD (without a crown).
30. Stages of preparation of a clasp retained removable partial denture with claps holding crowns.
31. Preparation of removable partial denture with acrylic base plate
32. What is the difference between working cast and master cast?
33. Precision attachments, milling technology, indications, contraindications, advantages and disadvantages.
34. Types of precision attachments
35. Definition and indication of stress-breakers and indirect retainers.
36. Definition types and features of bar attachments.
37. Registration of occlusal vertical dimension and centric relation in case of partial edentulousness.
38. Facebow registration, mounting the models in the articulator.
39. Describe the stages of preparing the precision attachment retained removable partial denture.
40. Definition and types of telescopic crowns. What means the delayed dental support, what is the indication? When do you use resilient telescopic crowns?
41. Telescope retained removable partial denture; definition, indication, advantages and disadvantages
42. Stages of preparing of a telescope retained overdenture (acrylic denture base).
43. Stages of preparing a telescope retained removable partial denture with metal framework.
44. Methods for the preparation of telescopic crowns.
45. Delivery of combined (fixed/removable) restorations.
46. Processing of removable partial dentures (flasking, packing, polymerizing, polishing).
47. Definition, indication and advantages of overdentures (hybrid prostheses).
48. Constructive elements of the overdenture (definition, types and indication).
49. Preparation of an overdenture with ball retention.
50. Immediate and interim/transitional dentures: definition, indication, stages of preparation
51. Periodontal and hygienic aspects in prosthetic rehabilitation.
52. Aim of regular follow-up, organization of recall, review procedures. Repair of prosthetic restorations, reline and rebase of removable partial and complete dentures.
53. Phonetic aspects of prosthetic appliances.
54. Process of model duplicating, materials for duplication
55. Legal aspects of prosthetic treatment

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Benke Beáta (BEBFADO.PTE), Dr. Marada Gyula (MAGFABO.PTE), Dr. Muzsek Zsófia (MUZFACO.PTE)

OSK-GF1-T PAEDIATRIC DENTISTRY 1

Course director: **DR. ILDIKÓ BALÁS-SZÁNTÓ**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSA-ANY-T completed + OSA-PF2-T completed + OSP-OFO-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of the subject is to give basic knowledge about pediatric dentistry. Diagnostic procedures.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

None

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Monty Duggal, Angus Cameron, Jack Toumba: Paediatric Dentistry at a Glance, October 2012, Wiley-Blackwell
  Angus C. Cameron and Richard P. Widmer: Handbook of Pediatric Dentistry

- *Literature developed by the Department*

  Lecture notes

- *Notes*

  None

- *Recommended literature*

  Digital method and content development of the hungarian higher education in dentistry in Hungarian, German and English (http://www.tankonyvtar.hu/en/tartalom/tamop412A/2011-0095_fogaszat_angol/adatok.html)

Lectures

1 The objectives of pediatric dentistry
Dr. Balásné Dr. Szántó Ildikó
2 Tooth developmental disorders
Dr. Sándor Balázs Attila
3 Dental examination of children. Laboratory and clinical diagnostics.
Dr. Balásné Dr. Szántó Ildikó
4 Caries diagnostic procedures of primary teeth and newly erupted teeth. Risk assessment.
Dr. Balásné Dr. Szántó Ildikó
5 Tooth discolorations in childhood
Dr. Sándor Balázs Attila
6 Management of children with general diseases.
Dr. Balásné Dr. Szántó Ildikó
7 Diagnostic procedures of pulp diseases
Dr. Sándor Balázs Attila
8 Diagnostic procedures of periostitis
Dr. Balásné Dr. Szántó Ildikó
9 Classification of oral injuries. Oral soft tissue injuries in the childhood.
Dr. Sándor Balázs Attila
10 Fractures and luxations in childhood
Dr. Sándor Balázs Attila
11 Oral manifestations of infective diseases. Vaccination.
Dr. Balásné Dr. Szántó Ildikó

12 Classification and diagnostics of periodontal diseases and oral mucosal lesions
Dr. Balásné Dr. Szántó Ildikó
13 Diagnostic radiographic imaging in pediatric dentistry
Dr. Sándor Balázs Attila
14 Dental materials in Pediatric dentistry
Dr. Sándor Balázs Attila

Practices

1-28 Dental examination of children

Seminars

Exam topics/questions

1. Tooth developmental disorders (shape, number of teeth)
2. Tooth developmental disorders (structural, eruption disorders)
3. Radiographic imaging
4. Dental examination of healthy children. Dental screening
5. Dental examination of handicapped children
6. Dental caries in the primary dentition
7. Dental caries in the newly erupted teeth
8. Caries risk assessment, caries activity tests
9. Emergency trauma care in pediatric dentistry - diagnostics
10. Pulp diseases
11. Periostitis
12. Injured permanent teeth and decidous teeth-fractures
13. Injured permanent teeth and decidous teeth-luxations
14. Types of soft tissue injuries
15. Immunization schedule. Tetanus vaccination
16. Local lesions of the oral mucosa
17. Periodontal diseases in childhood
18. Oral manifestations of infective diseases in childhood
19. Oral manifestations of systemic diseases in childhood
20. Discoloration of teeth in childhood

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Balásné Dr. Szántó Ildikó (SZINAJP.PTE), Dr. Sándor Balázs Attila (SABFAA.T.JPTE)

OSK-GT1-T PHARMACOLOGY 1

Course director: **DR. ZSUZSANNA TAMASIK-HELYES**, professor
Department of Pharmacology and Pharmacotherapy

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 0** practices **+ 28** seminars = total of **42** hours

Course headcount limitations (min.-max.): **2 – 30** *Prerequisites:* **OSP-KO2-T completed + OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The general aim of the subject is to provide the dentistry students with all the basic information in pharmacology necessary to understand the actions of drugs and the clinical pharmacotherapy. Pharmacology can be defined as the study of the manner in which the function of living systems is affected by chemical agents. Therefore, the students should be familiar with the basic knowledge of the physiological, pathophysiological and biochemical background of the pharmacological and therapeutic approaches. On the other hand, drug therapy is closely related to the clinical aspects of diseases.

The following topics will be dealt with. Definitions, prescription writing, drug development, drug formulations. General aspects of mechanisms of drug actions: characterization of drug-receptor interactions, mechanisms of drug antagonism, signal transduction mechanisms of drug receptors. General and quantitative aspects of pharmacokinetics: absorption, distribution and elimination of drugs. Pharmacology of the autonomic nervous system. Local anaesthetics.

Cardiovascular pharmacology: drugs used to treat congestive heart failure, antianginal, antiarrhythmic, antihypertensive drugs, diuretics, calcium channel blockers, drugs acting on the renin-angiotensin-aldosterone system. Drugs affecting haemostasis, haematopoesis and hyperlipoproteinaemias. Pharmacology of histamine, serotonin. Principles of immunopharmacology.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Making up for missed classes

Not possible

Reading material

- *Obligatory literature*

  Rang, Dale,B. Ritter, Moore: Pharmacology, 8th edition, Elsevier Churchill Livingstone, 2015.
  G. Katzung (ed.): Basic and Clinical Pharmacology, 12th edition, Lange Medical Books/McGraw-Hill, 2012.

- *Literature developed by the Department*

  Intranet. Department of Pharmacology and Pharmacotherapy. Educational materials.
  MeetStreet

- *Notes*

- *Recommended literature*

Lectures

1 Introduction to the pharmacology of the autonomic nervous
Tamasikné Dr. Helyes Zsuzsanna

2 Cholinergic agonists, cholinesterase inhibitors
Tamasikné Dr. Helyes Zsuzsanna

3 Muscarine receptor antagonists
Tamasikné Dr. Helyes Zsuzsanna

4 Peripheral muscle relaxants
Tamasikné Dr. Helyes Zsuzsanna

5 Drugs acting on synthesis, storage, release and elimination of catecholamines
Tamasikné Dr. Helyes Zsuzsanna

6 Adrenergic receptor agonists
Tamasikné Dr. Helyes Zsuzsanna

7 Adrenergic receptor antagonists
Sánticsné Dr. Pintér Erika

8 Sulfonamides, trimethoprim. Fluoroquinolones
Tamasikné Dr. Helyes Zsuzsanna

9 Beta lactam antibiotics I
Sánticsné Dr. Pintér Erika
10 Beta lactam antibiotics II. Glycopeptide antibiotics
Sánticsné Dr. Pintér Erika
11 Tetracyclines, chloramphenicol, linezolid, clindamycin, metronidazole
Tamasikné Dr. Helyes Zsuzsanna
12 Aminoglycosides. Macrolides
Tamasikné Dr. Helyes Zsuzsanna
13 Anticancer drugs I
Sánticsné Dr. Pintér Erika
14 Anticancer drugs II
Sánticsné Dr. Pintér Erika

Practices

Seminars

1 Introduction to pharmacology
2 Drug development
3 Basic mechanisms of drug effects. Characteristics of the agonist-receptor interaction I
4 Characteristics of the agonist-receptor interaction II
5 Signal transduction. Tachyphylaxis and tolerance
6 Antagonism
7 Consultation on pharmacodynamics
8 Absorption and distribution
9 Biotransformation and excretion
10 Quantitative pharmacokinetics
11 Consultation on pharmacokinetics
12 Histamine and histamine receptor antagonists
13 Serotonin, 5-HT receptor agonists and antagonists I
14 Serotonin, 5-HT receptor agonists and antagonists II
15 Consultation on the pharmacology of the autonomous nervous system
16 Eicosanoids I
17 Eicosanoids II
18 Drugs acting on smooth muscle
19 Local anaesthetics I
20 Local anaesthetics II
21 Antituberculotics. Treatment of leprosy
22 Antifungal drugs
23 Antiviral drugs I
24 Antiviral drugs II
25 Antiseptics and disinfectants
26 Consultation on antimicrobial chemotherapy
27 Cytotoxic and embryotoxic adverse effects of drugs. Drug allergy
28 Drug interactions

Exam topics/questions

1. Drug development
2. Basic mechanisms of drug effects
3. Characteristics of the agonist-receptor interaction
4. Signal transduction
5. Tachyphylaxis and tolerance. Antagonism
6. Absorption
7. Distribution
8. Biotransformation
9. Excretion
10. Quantitative pharmacokinetics
11. Cholinergic agonists. Cholinesterase inhibitors
12. Muscarine receptor antagonists
13. Peripheral muscle relaxants
14. Drugs acting on the synthesis, storage, release and elimination of catecholamines

15. Adrenergic receptor agonists
16. Adrenergic receptor antagonists
17. Histamine and histamine receptor antagonists
18. Serotonin, 5-HT receptor agonists and antagonists
19. Eicosanoids
20. Drugs influencing smooth muscles
21. Local anaesthetics
22. Sulfonamides, trimethoprim. Fluoroquinolones
23. β-lactam antibiotics. Glycopeptide antibiotics
24. Tetracyclines, chloramphenicol, linezolid, clindamycin, metronidazole
25. Aminoglycosides. Macrolides
26. Antituberculotics. Antileprotics
27. Antifungal drugs
28. Antiviral drugs
29. Antiseptics and disinfectants
30. Anticancer drugs: alkylating agents, antimetabolites
31. Anticancer drugs: antibiotics, alkaloids, hormones, biological therapy
32. Cytotoxic and embryotoxic adverse effects of drugs. Drug allergy
33. Drug interactions

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Bölcskei Kata (BOKFABO.PTE), Dr. Pozsgai Gábor (POGFAAO.PTE), Sánticsné Dr. Pintér Erika (PIEMAAO.PTE), Tamasikné Dr. Helyes Zsuzsanna (HEZFAAO.PTE)

OSK-MEN-T PUBLIC HEALTH

Course director: **DR. ISTVÁN KISS**, professor
Department of Public Health Medicine

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **28** lectures **+ 14** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 0** *Prerequisites:* **OSP-KO2-T completed + OSP-MI1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Public Health represents the preventive side of medicine. The subject deals with primary, secondary and tertiary prevention of the most challenging diseases of public health.

The aims are to exam the process of disease development and demonstrate the possibilities of prevention on individual and community levels.

Conditions for acceptance of the semester

Participation in practicals is obligatory which is registered.

Absences should not exceed 2x45 min. Otherwise signature of grade book is denied.

Mid-term exams

Making up for missed classes

-

Reading material

- *Obligatory literature*

  Edit Paulik: Public Health and Preventive Medicine, Medicina Publishing House, Budapest 2013.

- *Literature developed by the Department*

  Educational material uploaded on Neptun.

- *Notes*

- *Recommended literature*

Lectures

1 Leading causes of mortality and morbidity worldwide.
Dr. Kiss István

2 The definition of health and disease. Health determinants.
Dr. Kiss István

3 Levels of prevention.
Dr. Marek Erika Mária

4 Demography.
Dr. Marek Erika Mária

5 Epidemiology and prevention of cardiovascular diseases I.
Dr. Kiss István

6 Epidemiology and prevention of cardiovascular diseases II.
Dr. Kiss István

7 Epidemiology and prevention of other non-communicable diseases. (diabetes, obesity)
Dr. Németh Katalin

8 Epidemiology and prevention of other non-communicable diseases. (osteoporosis)
Dr. Kiss István

9 Epidemiology and prevention of cancer I.
Dr. Kiss Zsuzsanna

10 Epidemiology and prevention of cancer II.
Dr. Kiss Zsuzsanna

11 Epidemiology and prevention of other non-communicable diseases (gastrointestinal diseases)
Dr. Németh Katalin

12 Epidemiology and prevention of other non-communicable diseases (respiratory diseases)
Dr. Németh Katalin

13 Basics of nutrition. Nutritional habits, healthy diet I.
Dr. Szabó István
14 Basics of nutrition. Nutritional habits, healthy diet II.
Dr. Szabó István
15 Role of nutrition in the development of major chronic non-communicable diseases I.
Dr. Kiss István
16 Role of nutrition in the development of major chronic non-communicable diseases II.
Dr. Kiss István
17 Basics of infectious diseases.
Dr. Németh Katalin
18 Epidemiology of infectious diseases: global and European situation.
Dr. Németh Katalin
19 Main categories of infectious diseases and their characterization I.
Dr. Németh Katalin
20 Main categories of infectious diseases and their characterization II.
Dr. Németh Katalin
21 Vaccination.
Dr. Kiss István
22 Nosocomial infections.
Dr. Gyöngyi Zoltán
23 Water hygiene.
Dr. Szendi Katalin
24 Soil pollution.
Bérczi Bálint Dániel
25 Air hygiene.
Dr. Varga Csaba
26 Healthy environment at workplace. Health effects of radiation, noise, vibration, dusts, chemicals.
Dr. Tibold Antal
27 Occupational medicine in the dental praxis.
Dr. Tibold Antal
28 Occupational diseases. Ergonomics.
Dr. Tibold Antal

Practices

1 Basics of epidemiology I.
2 Basics of epidemiology II.
3 Screening.
4 Social risk factors.
5 Epidemiology of head and neck cancers.
6 Health promotion, health education.
7 Nutrition related diseases and their prevention. Dietary assessment.
8 Food borne infectious diseases, food poisoning and their prevention.
9 Practical aspects of infectious disease prevention.
10 Public health importance, epidemiology and prevention of oral diseases.
11 Epidemiology of sexually transmitted diseases and viral hepatitis.
12 Hospital hygiene. Sterilization, disinfection.
13 Major risk factors in disease development: smoking
14 Major risk factors in disease development: drug abuse and alcohol consumption.

Seminars

Exam topics/questions

Questions of choice Public Health

1. Leading causes of mortality and morbidity worldwide.
2. The definition of health and disease. Health determinants.
3. Levels of prevention.
4. Demography.
5. Epidemiology and prevention of cardiovascular diseases.
6. Epidemiology and prevention of cancer.
7. Epidemiology and prevention of other non-communicable diseases: diabetes.

8. Epidemiology and prevention of other non-communicable diseases: obesity.
9. Epidemiology and prevention of other non-communicable diseases: osteoporosis.
10. Epidemiology and prevention of other non-communicable diseases: gastrointestinal diseases.
11. Epidemiology and prevention of other non-communicable diseases: respiratory diseases.
12. Basics of nutrition.
13. Nutritional habits, healthy diet.
14. Role of nutrition in the development of major chronic non-communicable diseases.
15. Basics of infectious diseases.
16. Epidemiology of infectious diseases: global and European situation.
17. Main categories of infectious diseases and their characterization.
18. Vaccination.
19. Nosocomial infections.
20. Water hygiene.
21. Soil pollution.
22. Air hygiene.
23. Healthy environment at workplace.
24. Health effects of radiation, noise, vibration, dusts, chemicals.
25. Occupational medicine in the dental praxis.
26. Occupational diseases. Ergonomics.
27. Basics of epidemiology.
28. Social risk factors.
29. Health promotion, health education.
30. Epidemiology of head and neck cancers.
31. Nutrition related diseases and their prevention.
32. Food borne infectious diseases, food poisoning and their prevention.
33. Public health importance of oral diseases.
34. Epidemiology and prevention of caries.
35. Epidemiology of sexually transmitted diseases.
36. Epidemiology of viral hepatitis.
37. Hospital hygiene. Sterilization, disinfection.
38. Practical aspects of infectious disease prevention.
39. Major risk factors in disease development: smoking
40. Major risk factors in disease development: alcohol consumption.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Berényi Károly (BEKFABO.PTE), Dr. Gyöngyi Zoltán (GYZMAAO.PTE), Dr. Horváth-Sarródi Andrea (HOAF-ALO.PTE), Dr. Németh Katalin (NEKFABO.PTE), Dr. Szabó István (SZIGABO.PTE)

OSK-OPF-T OPERATIVE DENTISTRY - OPERATIVE DENTISTRY

Course director: **DR. EDINA LEMPEL**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

5 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 56** practices **+ 0** seminars = total of **70** hours

Course headcount limitations (min.-max.): **3 – 25** *Prerequisites:* **OSA-ANY-T completed + OSP-OFO-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Basic information about different treatment methods of carious lesions.

Conditions for acceptance of the semester

Attending the classes, according to the rules of the Code of Studies and Examinations (Max 15% absence is accepted from the lectures and from the practices). 10 minutes late is equal with an absence.

10 minutes late from the practice is considered as an absence.

In case of lack of basic knowledge/preparedness the supervisor can refuse the participation.

Mid-term exams

Further requirement to collect minimum 10 scores from the treatments.

Scores of the treatments:

Esthetic filling: Class I., V.: 0,75

Esthetic filling: Class II., III., IV.: 1,25

Trepanation, enlargement of front teeth: 1,00

Trepanation, enlargement of premolar teeth: 1,25

Trepanation, enlargement of front teeth: 2,00

Root canal filling of front teeth: 0,50

Root canal filling of premolar teeth: 0,75

Root canal filling of molar teeth: 1,00

Inlay/onlay: 3,00

Status: 0,30

Scaling/arch: 0,30

During the semester 2 tests will be written (accepted result min. 60%). If none of the tests reaches the 60% the semester is not accepted. If one of the tests is less than 61%, there is possibility to improve it during the semester.

Inadequate preparedness on the practice, improper treatment of the patient may lead to denial of the semester.

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Sturdevant's Art and Science of Operative Dentistry

- *Literature developed by the Department*

  Topics of the oral presentations.

- *Notes*

- *Recommended literature*

  Robert G. Craig: Restorative Dental Materials

Lectures

1 Principles and rules of cavity preparation
Dr. Lempel Edina
2 Pain, trauma and moisture control during treatments
Dr. Lempel Edina
3 Metals (clinical pertains), cements (clinical pertains)
Dr. Lempel Edina
4 Dental Ceramics
Dr. Lempel Edina
5 Dental bonding agents
Dr. Lempel Edina
6 Adhesive cementation of full ceramic restorations
Dr. Lempel Edina
7 Operative treatment's effect on the pulp
Dr. Lempel Edina
8 Types of composite resin filling materials and their use
Dr. Lempel Edina
9 Minimal invasive restorations. Composite resin fillings, layering techniques
Dr. Lempel Edina
10 The making of esthetic composite resin and porcelain veneers
Dr. Lempel Edina
11 The making of indirect class I., II., V. fillings. (Inlay)
Dr. Lempel Edina
12 Class III. and class IV. cavity fillings
Dr. Lempel Edina
13 The use of flowable composite resins, compomers and modern glass-ionomer cements in esthetic dentistry
Dr. Lempel Edina
14 Special cavity preparations, dentin pins, lining, extra-radicular anchorage
Dr. Lempel Edina

Practices

1-56 Patient treatment in clinical practice

Seminars

Exam topics/questions

1. The principles of cavity preparation, classification of cavities, nomenclature
2. Rubber dam isolation
3. Anaesthesia, trauma control, effect of treatments on the pulp
4. Metallic filling materials, temporary filling materials
5. Cements
6. Resins, composite resin filling materials
7. Adhesive systems in operative dentistry
8. Class I, II, V preparation for plastic filling
9. Class I, II, V preparation for solid filling
10. Composite layering techniques for II class cavities
11. Class III. , IV. cavity preparation for plastic filling. Filling of cavity
12. Making of metal inlay/onlay (preparation, direct, indirect modelling)
13. I, II, V class metal inlay cementation
14. I, II, V class composite/ceramic inlay (preparation, impression, technical background)
15. I, II, V class composite/ceramic inlay adhesive cementation
16. Indication and criteria of parapulpal pins

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Lempel Edina (LEEFABO.PTE), Dr. Schreindorfer Károly (SCKPABO.PTE)

OSK-SZ1-T ORAL SURGERY 1

Course director: **DR. JÓZSEF SZALMA**, associate professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **7**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSP-PA2-T completed + OSP-SZP-T completed + OSK-GT1-T parallel**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this subject is to give basic information about dental and non-dental origin of inflammations and cysts of head and neck region and general dentoalveolar surgery.

Conditions for acceptance of the semester

Attendance on lectures and practices is compulsory. No make up for missed classes. Missing more than 20% will automatically reject semester acceptance [i.e. 3 or more missing on lectures, or 3 or more missing from practices (where one practice block is 90=2x45 minutes)]and the semester has to be repeated .

Mid-term exams

There are two tests in this semester. The first, usually on the 7th week, the second usually on the 13th week. To write the test after an absence is only possible in the first week of the exam period. That is the way of gaining a better note.

Making up for missed classes

No possibility

Reading material

- *Obligatory literature*

  Szabo Gy.: Oral and Maxillofacial Surgery, Semmelweis, 2001.

- *Literature developed by the Department*

  Lecture notes

- *Notes*

- *Recommended literature*

  Stanley F. Malamed: Local Anesthesia, Mosby 1990
  Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998

Lectures

1 General anesthesia. Indications and contraindications. Anesthetic solutions.
Dr. Szalma József

2 Surgical removal of teeth and roots (sculptio). Consideration of flap preparation
Dr. Szalma József

3 Surgical removal of impacted and retained teeth I. wisdom teeth: indications, contraindications, complications
Dr. Szalma József

4 Surgical removal of impacted and retained teeth II. canines, premolars and supernumerary teeth: indications, contraindications, complications
Dr. Szalma József

5 Odontogenic inflammations and following consequences. Chronic periapical inflammations.
Dr. Szalma József

6 Surgery of the periapical space. Indications and contraindications of the resection. Retrograde root filling. Periapical curettage.
Dr. Szalma József

7 Periostits, abscess and cellulitis from dental origin. Symptoms and therapy.
Dr. Szalma József

8 Abscesses. Local anesthesia of inflammated areas. Rules of incision.
Dr. Szalma József

9 Osteomyelitis. Diagnosis and therapy.
Dr. Szalma József

10 Alveolar ostitis (dry socket syndrome). Osteoradionecrosis. BION
Dr. Szalma József

11 Phlegmone; development, symptoms and therapy
Dr. Szalma József
12 Non-specific and non-odontogenic inflammation of the head and neck
Dr. Szalma József
13 Specific inflammation of the head and neck. Actynomycosis.
Dr. Szalma József
14 Written assignment, consultation.
Dr. Szalma József

Practices

1-28 Patient treatment in the clinical practice

Seminars

Exam topics/questions

There are no special list of questions. Students write the test based on lecture materials.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Gelencsér Gábor László (GEGTAAO.PTE), Dr. Olasz Lajos (OLLPAAP.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZJFACO.PTE), Dr. Vajta László Ferenc (VALMAAO.PTE)

OSK-BE2-T INTERNAL MEDICINE 2

Course director: **DR. LÁSZLÓ ZOLTÁN BAJNOK**, professor
1st Department of Internal Medicine

4 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **28** lectures **+ 28** practices **+ 0** seminars = total of **56** hours

Course headcount limitations (min.-max.): **1 – not limited**

Prerequisites: **OSP-BPR-T completed + OSP-KO2-T completed + OSK-GT2-T parallel**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

During the course the following disciplines of internal medicine will be discussed: cardiology, gastroenterology, haematology and endocrinology.

Conditions for acceptance of the semester

The attendance of the lectures and practices is compulsory.

The total number of justified and unjustified absences may not exceed 25%, while the number of unjustified absences may not exceed 15% of lectures and practices, otherwise the semester should be repeated.

Mid-term exams

Making up for missed classes

During the semester

Reading material

- *Obligatory literature*

  Tierney LM, McPhee SJ, Papadakis MA: Current Medical Diagnosis and Treatment, current edition, Lange/McGraw-Hill, New York, NY

- *Literature developed by the Department*

  http://aok.pte.hu/en/egyseg/oktatasianyagok/260

- *Notes*

- *Recommended literature*

Lectures

1 Rheumatic fever. Infective endocarditis. Valvular diseases.
Dr. Bajnok László Zoltán

2 Rheumatic fever. Infective endocarditis. Valvular diseases.
Dr. Bajnok László Zoltán

3 Myocarditis. Pericarditis. Heart failure. Cardiomyopathies.
Dr. Bajnok László Zoltán

4 Myocarditis. Pericarditis. Heart failure. Cardiomyopathies.
Dr. Bajnok László Zoltán

5 Ischemic heart diseases. Angina pectoris. Myocardial infarction.
Dr. Bajnok László Zoltán

6 Ischemic heart diseases. Angina pectoris. Myocardial infarction.
Dr. Bajnok László Zoltán

7 Arrhythmias. Peripherial vascular diseases.
Dr. Bajnok László Zoltán

8 Arrhythmias. Peripherial vascular diseases.
Dr. Bajnok László Zoltán

9 Venous thromboses. Pulmonary embolism.
Dr. Bajnok László Zoltán

10 Venous thromboses. Pulmonary embolism.
Dr. Bajnok László Zoltán

11 Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
Dr. Bódis Beáta

12 Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
Dr. Bódis Beáta

13 Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohn's disease).
Dr. Bódis Beáta
14 Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohn's disease).
Dr. Bódis Beáta
15 Colon cancer. Biliary stones. Cholecystitis. Acute and chronic hepatitis.
Dr. Bódis Beáta
16 Colon cancer. Biliary stones. Cholecystitis. Acute and chronic hepatitis.
Dr. Bódis Beáta
17 Liver cirrhosis. Pancreatitis.
Dr. Bódis Beáta
18 Liver cirrhosis. Pancreatitis.
Dr. Bódis Beáta
19 Diseases of the erythropoiesis. Anemias. Polycythemia.
Dr. Bódis Beáta
20 Diseases of the erythropoiesis. Anemias. Polycythemia.
Dr. Bódis Beáta
21 Diseases of the leukocytes. Leukemias, malignant lymphomas.
Dr. Bódis Beáta
22 Diseases of the leukocytes. Leukemias, malignant lymphomas.
Dr. Bódis Beáta
23 Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.
Dr. Bódis Beáta
24 Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.
Dr. Bódis Beáta
25 Endocrinology. Diseases of the thyroid gland and parathyroids.
Dr. Bajnok László Zoltán
26 Endocrinology. Diseases of the thyroid gland and parathyroids.
Dr. Bajnok László Zoltán
27 Diseases of pituitary and suprarenal gland.
Dr. Bajnok László Zoltán
28 Diseases of pituitary and suprarenal gland.
Dr. Bajnok László Zoltán

Practices

1 Rheumatic fever. Infective endocarditis. Myocarditis. Pericarditis.
2 Rheumatic fever. Infective endocarditis. Myocarditis. Pericarditis.
3 Arrhythmias
4 Arrhythmias
5 Valvular diseases. Cardiomyopathies.
6 Valvular diseases. Cardiomyopathies.
7 Ischemic heart diseases. Angina pectoris. Myocardial infarction.
8 Ischemic heart diseases. Angina pectoris. Myocardial infarction.
9 Heart failure (subtypes, symptoms, signs, therapy). Pulmonary embolism.
10 Heart failure (subtypes, symptoms, signs, therapy). Pulmonary embolism.
11 Peripherial vascular diseases. Venous thromboses.
12 Peripherial vascular diseases. Venous thromboses.
13 Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
14 Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
15 Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohn's disease).
16 Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohn's disease).
17 Colon cancer. Acute and chronic hepatitis.
18 Colon cancer. Acute and chronic hepatitis.
19 Liver cirrhosis. Biliary stones. Cholecystitis. Pancreatitis.
20 Liver cirrhosis. Biliary stones. Cholecystitis. Pancreatitis.
21 Diseases of the erythropoiesis. Anemias. Polycythemia.
22 Diseases of the erythropoiesis. Anemias. Polycythemia.
23 Diseases of the leukocytes. Leukemias, malignant lymphomas.
24 Diseases of the leukocytes. Leukemias, malignant lymphomas.
25 Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.

26 Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.
27 Endocrinology. Diseases of the thyroid gland. Disorders of the suprarenal gland.
28 Endocrinology. Diseases of the thyroid gland. Disorders of the suprarenal gland.

Seminars

Exam topics/questions

1. Rheumatic fever
2. Infective endocarditis
3. Valvular diseases
4. Myocarditis
5. Pericarditis
6. Heart failure
7. Cardiomyopathies
8. Ischemic heart diseases
9. Angina pectoris
10. Myocardial infarction
11. Arrhythmias
12. Peripherial vascular diseases
13. Venous thromboses
14. Pulmonary embolism
15. Diseases of the esophagus
16. Peptic ulcer disease
17. Stomach cancer
18. Gastrointestinal bleeding
19. Inflammatory bowel diseases
20. Colon cancer
21. Biliary stones
22. Cholecystitis
23. Acute and chronic hepatitis
24. Liver cirrhosis
25. Pancreatitis
26. Diseases of the erythropoiesis
27. Anemias
28. Polycythemia
29. Diseases of the leukocytes
30. Leukemias
31. Malignant lymphomas
32. Bleeding disorders
33. Coagulopathies
34. Thrombocytopenias
35. Abnormalities of platelet and vascular function
36. Diseases of the thyroid gland
37. Diseases of parathyroids
38. Diseases of pituitary gland
39. Diseases of suprarenal gland

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Bajnok László Zoltán (BALPABP.PTE), Dr. Bódis Beáta (BOBHAAE.PTE), Dr. Gál Roland (GARNAAO.PTE)

OSK-END-T OPERATIVE DENTISTRY - ENDODONTICS

Course director: **DR. EDINA LEMPEL**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

5 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 56** practices **+ 0** seminars = total of **70** hours

Course headcount limitations (min.-max.): **1 – 25**

Prerequisites: **OSK-OPF-T completed + OSK-CAA-T completed + OSK-GF1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Basic information of etiology of pulp's infectious diseases. Principles of diagnosis and treatment strategies.

Conditions for acceptance of the semester

Attending the classes, according to the rules of the Code of Studies and Examinations (Max 15% absence is accepted from the lectures and from the practices). 10 minutes late is equal with an absence.

Further requirement to collect minimum 10 scores from the treatments.

From the 10 scores min 8 should be plastic restoration (4) and endodontic treatment (4).

Scores of the treatments:

Esthetic filling: Class I., V.: 0,75

Esthetic filling: Class II., III., IV.: 1,25

Trepanation, enlargement of front teeth: 1,00

Trepanation, enlargement of premolar teeth: 1,25

Trepanation, enlargement of front teeth: 2,00

Root canal filling of front teeth: 0,50

Root canal filling of premolar teeth: 0,75

Root canal filling of molar teeth: 1,00

Inlay/onlay: 3,00

Status: 0,30

Scaling/arch: 0,30

10 minutes late from the practice is considered as an absence.

In case of lack of basic knowledge/preparedness the supervisor can refuse the participation.

Mid-term exams

During the semester 2 tests will be written (accepted result min. 60%). If none of the tests reaches the 60% the semester is not accepted. If one of the tests is less than 61%, there is possibility to improve it during the semester.

Inadequate preparedness on the practice, improper treatment of the patient may lead to denial of the semester.

Making up for missed classes

None

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Topics of the oral presentations.
- *Notes*
- *Recommended literature*

  S. Cohen: Pathways of the Pulp

Lectures

1 The modern concept of endodontics
Dr. Lempel Edina
2 Endodontic examination methods, treatment planning
Dr. Lempel Edina
3 Pulp diseases and their differential diagnosis
Dr. Lempel Edina
4 Endodontic examination methods, differential diagnosis of facial pains
Dr. Lempel Edina
5 Anatomy and histology of the root-canals
Dr. Lempel Edina
6 Diseases of the periapical region, their differential diagnosis
Dr. Lempel Edina
7 Armamentarium for endodontics (instruments and equipment), chemical preparation
Dr. Lempel Edina
8 Nickel-Titanium (NiTi) systems, electronic appliances, use of the stereoscopic surgical microscope for endodontics
Dr. Lempel Edina
9 Determination of working length, root canal preparation. Principles, difficulty and frequent errors of preparation
Dr. Lempel Edina
10 Step-back technique, step-down technique, double-flared technique
Dr. Lempel Edina
11 Balanced-force technique. Materials used for root-canal filling. The adaptation of the master point
Dr. Lempel Edina
12 Root canal preparation with rotary instrument
Dr. Lempel Edina
13 Lateral and vertical condensation. The removal of the root-canal filling
Dr. Lempel Edina
14 Additional surgical methods in endodontics
Dr. Lempel Edina

Practices

1-56 Patient treatment in clinical practice

Seminars

Exam topics/questions

Exam questions

1. The modern concept of endodotics
2. Systemic diseases, considerable from the endodontic treatment
3. Endodontic examination methods
4. Inflammatory and non-inflammatory diseases of the pulp, their differential diagnosis
5. Endodontic hand instruments and equipment
6. Endodontic rotary instruments and equipment
7. Disinfection and sterilization of instruments used for endodontic treatments
8. Acute endodontic treatments
9. Pulpchamber and root-canal morphology
10. Step-back, step-down and anticurvature filing techniques
11. Access cavity preparation, localization of orificies and exploration of root canals
12. Balanced-force technique for root-canal preparation
13. Chemical preparation, disinfection, irrigation and recapitulation of the root-canal
14. Root canal preparation with rotary instruments
15. Root canal filling with lateral and vertical condensation technique
16. Medication of root canal. Effect of calcium-hydroxide.
17. Internal, external resorptions
18. Parodonto-endodontic lesions
19. Surgical methods in endodontic treatments
20. Root canal filling materials
21. Pulp capping. Treatments for pulp vitality.
22. Endodontic considerations of infectious foci

23. Determination of working length
24. Principles of root canal preparation. Frequent errors
25. Histology of the pulp
26. Pathology and clinical features of painful periapical lesions
27. Pathology and clinical features of non-painful periapical lesions

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Lempel Edina (LEEFABO.PTE), Dr. Schreindorfer Károly (SCKPABO.PTE)

OSK-FE2-T ORTHODONTICS 2 - THEORY

Course director: **DR. ZSUZSANNA GURDÁN**, assistant lecturer
Department of Dentistry, Oral and Maxillofacial Surgery

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **1 – 100** *Prerequisites:* **OSK-E1F-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this subject is that graduate students can acquire the knowledge regarding the aetiological factors and characteristics of orthodontic anomalies as well as possible treatment strategies. This is necessary for general dental practitioners to be able to recognise orthodontic problems and to take part in interdisciplinary collaboration.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Attending the lectures is obligatory. A maximum of two missings is accepted. There are written exams in 7th and 14th weeks. The Midsemester Grade is calculated from the average of the results of the two exams.

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Lecture notes

- *Literature developed by the Department*

  Lectures will be uploaded on Neptun.

- *Notes*

- *Recommended literature*

Lectures

1 Changing aspects of the orthodontic treatment from the early years to present times
Dr. Gurdán Zsuzsanna

2 Aims of the orthodontic treatment
Dr. Gurdán Zsuzsanna

3 Timing and phases of orthodontic treatment
Dr. Gurdán Zsuzsanna

4 Biological basis of tooth movement
Dr. Gurdán Zsuzsanna

5 Orthodontic biomechanics. Properties of metals used in orthodontics
Dr. Gurdán Zsuzsanna

6 Removable orthodontic appliances: materials, construction, effects
Dr. Gurdán Zsuzsanna

7 Written test
Dr. Gurdán Zsuzsanna

8 Fixed orthodontic appliances: materials, construction, effects
Dr. Gurdán Zsuzsanna

9 Appliances used in Class I malocclusion
Dr. Gurdán Zsuzsanna

10 Appliances used in Class II malocclusion
Dr. Gurdán Zsuzsanna

11 Appliances used in Class III malocclusion
Dr. Gurdán Zsuzsanna

12 Extractions with orthodontic indication
Dr. Gurdán Zsuzsanna

13 Jaw orthopaedics
Dr. Gurdán Zsuzsanna
14 Written test
Dr. Gurdán Zsuzsanna

Practices

Seminars

Exam topics/questions

1. Changing aspects of the orthodontic treatment from the early years to present times
2. Aims of the orthodontic treatment
3. Timing and phases of orthodontic treatment
4. Biological basis of tooth movement
5. Orthodontic biomechanics. Properties of metals used in orthodontics
6. Removable orthodontic appliances: materials, construction, effects
7. Fixed orthodontic appliances: materials, construction, effects
8. Appliances used in Class I malocclusion
9. Appliances used in Class II malocclusion
10. Appliances used in Class III malocclusion
11. Extractions with orthodontic indication
12. Jaw orthopaedics

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-FL3-T PROSTHODONTICS 3

Course director: **DR. MÁRTA MÁRIA RADNAI**, professor
Department of Dentistry, Oral and Maxillofacial Surgery

5 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 56** practices **+ 0** seminars = total of **70** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSK-CAA-T completed + OSK-FL2-T completed + OSK-GNA-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of the lectures is to teach the normal and pathologic functions of the temporomandibular joint (TMJ), etiology of diseases, diagnostic methods, and the types of the conservative therapies. The further aim of this course is to inform the students how we can adapt the general principles of clinical prosthodontics individual cases, and other in the clinical practice important topics will be presented.

Conditions for acceptance of the semester

Completing the tasks given by the tutor in the clinical practice. During the semester the students should make a PowerPoint presentation of their works in the dental practice, which is needed to be handled in in the last week of the semester to the course director or practice director.

The theoretical knowledge of the student is evaluated by the practice leader in orla or written form. If the students' theoretical knowledge not acceptable the student can not participate in the practice. Average of the marks receiving for the practical tasks in the training office. The average must be at least 2.0. If the student gets 3 or more failed marks during the semester for his/her practical work, then the semester can not be evaluated and accepted. The practical tasks, which are not finished, also considered as failed mark. - Average of the marks of written or oral tests relating the theoretical knowledge which is necessary to carry out the practical work. - Form of tests: oral test, written test, etc. If the test considered as failed, the student gets one opportunity to rewrite the test. If the student gets further failed mark, the semester/practice is not accepted, it can not be evaluated. - If either of the above averages (for the practical work or the relating theory) does not reach 2.0 the end semester practical mark can not be evaluated and accepted, the student has to repeat the course. - The student receives marks for the practical tasks.

Mid-term exams

See abowe

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*

  Bumann, A., Lotzmann, U. TMJ: Disorders and Orofacial Pain. The Role of Dentistry in a Multidisciplinary Diagnostic Approach. Color Atlas of Dental Medicine, Stuttgart New York, Thieme, 2005

- *Literature developed by the Department*

  lectures

- *Notes*

- *Recommended literature*

  Bengt Öwall: Prosthodontics (Principles and Management Strategies), Mosby, 1996

  SF Rosenstiel, MF Land, J Fujimoto: Contemporary Fixed Prosthodontics

  Zarb, GA, Carlsson, GE, Sessle, BJ, Mohl, ND (Ed.): Temporomandibular Joint and Masticatory Muscle Disorders, 2nd ed., Munksgaard: Copenhagen, 1994

Lectures

1 Decision making in dentistry.
Dr. Marada Gyula

2 Geriatric patients.
Dr. Marada Gyula

3 Diseases of temporomandibular system.
Dr. Somoskövi István

4 TMJ dysfunction; symptoms and etiology.
Dr. Somoskövi István

5 Clinical examination methods, diagnostics. Imaging methods, importance of MRI.

Dr. Marada Gyula
6 Differential diagnostics of TMJ dysfunction.
Dr. Somoskövi István
7 Conservative therapy: splints, medicaments.
Dr. Somoskövi István
8 Conservative therapy: Physio- Physico, psychotherapy.
Dr. Somoskövi István
9 Periodontal aspects of prosthodontic treatment.
Dr. Marada Gyula
10 Legal aspects of prosthetic therapy.
Dr. Rajnics Zsolt
11 Mistakes during impression taking.
Dr. Marada Gyula
12 Digital technology in prosthodontics.
Dr. Marada Gyula
13 Preprosthetic surgery.
Dr. Rajnics Zsolt
14 Maxillofacial Prosthetics. Preparation of combined dentures.
Dr. Rajnics Zsolt

Practices

1-56 Making fixed and removable prosthodontics depending on patient availability.

Seminars

Exam topics/questions

Students have to make a clasp denture design on a given dental status

1. Prosthetic epidemiology
2. Prognosis of prosthetic therapy, influencing factors.
3. Geriatric aspects of prosthetic treatment.
4. Decision making in prosthodontics
5. Temporomandibular disorders
6. Etiology of temporomandibular dysfunction.
7. Symptoms of TMJ dysfunction.
8. Diagnostics of TMJ dysfunction
9. Imaging methods, importance of MRI
10. Conservative therapy: medicaments.
11. Conservative therapy: Splints
12. Conservative therapy: Physio- and Physicotherapy
13. Periodontal aspects of prosthodontic treatment
14. Legal aspects of prosthetic therapy
15. Impression taking and mistakes during impression taking
16. Digital technology in prosthodontics
17. Preprosthetic surgery
18. Maxillofacial Prosthetics
19. Preparation of combined dentures

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Baumann Petra Henrietta (BAPFADO.PTE), Dr. Benke Beáta (BEBFADO.PTE), Dr. Marada Gyula (MAGFABO.PTE), Dr. Muzsek Zsófia (MUZFACO.PTE)

OSK-GF2-T PAEDIATRIC DENTISTRY 2

Course director: **DR. ILDIKÓ BALÁS-SZÁNTÓ**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 25** *Prerequisites:* **OSK-GF1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Dental treatments in childhood, based on previously learned diagnostic studies.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

None

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Monty Duggal, Angus Cameron, Jack Toumba: Paediatric Dentistry at a Glance, October 2012, Wiley-Blackwell;
  Angus C. Cameron and Richard P. Widmer: Handbook of Pediatric Dentistry

- *Literature developed by the Department*

  Lecture notes

- *Notes*

  None

- *Recommended literature*

  Digital method and content development of the hungarian higher education in dentistry in Hungarian, German and English (http://www.tankonyvtar.hu/en/tartalom/tamop412A/2011-0095_fogaszat_angol/adatok.html)

Lectures

1 Analgesia and anaesthesia in childhood.
Dr. Sándor Balázs Attila

2 Diagnosis and treatment of handicapped children. Pharmacotherapy.
Dr. Balásné Dr. Szántó Ildikó

3 Sedation and general anaesthesia by children
Dr. Kövesi Tamás

4 Skull injuries and therapy of children
Dr. Vámos Zoltán

5 Caries treatment.
Dr. Balásné Dr. Szántó Ildikó

6 Treatment of pulp diseases in primary teeth.
Dr. Sándor Balázs Attila

7 Endodontic treatment of young permanent teeth.
Dr. Sándor Balázs Attila

8 Treatment of odontogen inflammations
Dr. Balásné Dr. Szántó Ildikó

9 Treatment of gingival and oral mucosal diseases.
Dr. Balásné Dr. Szántó Ildikó

10 Treatment of permanent tooth luxations. Treatment of soft tissue injuries.
Dr. Sándor Balázs Attila

11 Treatment of primary tooth injuries (luxations and fractures).
Dr. Sándor Balázs Attila

12 Treatment of fractured permanent teeth. Tooth discoloration.
Dr. Sándor Balázs Attila
13 Prosthodontic treatments in pediatric dentistry.
Dr. Balásné Dr. Szántó Ildikó
14 Consultation
Dr. Balásné Dr. Szántó Ildikó

Practices

1-28 Patient examination, Simple dental treatments in children according to the outpatient department.

Seminars

Exam topics/questions

1. Local anesthesia
2. Systemic analgesics
3. Sedation, general anesthesia
4. The types of mental retardation, treatment of these patients
5. Treatment of disabled and autistic patients
6. Treatment of dental caries in primary incisors
7. Treatment of dental caries in primary molars
8. Caries treatment in newly erupted teeth
9. Endodontic treatments in deciduous teeth
10. Etiology and treatment of root pathological root resorption
11. Apexogenesis
12. Apexification
13. Treatment of periostitis
14. Treatment of fractured primary teeth
15. Treatment of fractured newly erupted teeth
16. Emergency care of traumatic cases. The etiology of dental injuries
17. Treatment of luxation in primary dentition
18. Treatment of luxation in permanent dentition
19. Fixed and removable prosthodontics and dental implants in childhood.
20. Diagnosis and therapy of oral manifestations of systemic (non-infectious) diseases in childhood
21. Treatment of periodontal diseases in childhood
22. Dental materials used in pediatric dentistry
23. Splinting
24. Emergency care in pediatric dentistry
25. Diagnosis and treatment of oral manifestations of infectious diseases

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Balásné Dr. Szántó Ildikó (SZINAJP.PTE), Dr. Sándor Balázs Attila (SABFAA.T.JPTE)

OSK-GT2-T PHARMACOLOGY 2

Course director: **DR. ZSUZSANNA TAMASIK-HELYES**, professor
Department of Pharmacology and Pharmacotherapy

3 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 0** practices **+ 28** seminars = total of **42** hours

Course headcount limitations (min.-max.): **2 – 30** *Prerequisites:* **OSK-GT1-T completed + OSP-MI1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The general aim of the subject is to provide the dentistry students with all the basic information in pharmacology necessary to understand the actions of drugs and the clinical pharmacotherapy. Pharmacology can be defined as the study of the manner in which the function of living systems is affected by chemical agents. Therefore, the students should be familiar with the basic knowledge of the physiological, pathophysiological and biochemical background of the pharmacological and therapeutic approaches. On the other hand, drug therapy is closely related to the clinical aspects of diseases.

The following topics will be dealt with. Opioid analgesic drugs, cyclooxygenase inhibitors. Pharmacology of the central nervous system: general anaesthetics, antipsychotic drugs, antidepressants, antianxiety and hypnotic drugs, antiepileptics, treatment of neurodegenerative disorders, drug abuse and dependence. Pharmacology of the respiratory and the gastrointestinal tract. Pharmacology of the endocrine system: pituitary hormones, corticosteroids, reproductive system, thyroid hormones, antithyroid drugs, insulin, glucagon and oral hypoglycemic agents, vitamin D, treatment of osteoporosis. Chemotherapy: sulphonamides and trimethoprim, fluoroquinolones, beta-lactam antibiotics, aminoglycosides, antituberculotics. Antifungal drugs, antiviral agents, antiseptics and disinfectants.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Making up for missed classes

Not possible

Reading material

- *Obligatory literature*

  Rang, Dale, Ritter, Moore: Pharmacology, 8th edition, Elsevier Churchill Livingstone, 2015.
  B. G. Katzung (ed.): Basic and Clinical Pharmacology, 12th edition, Lange Medical Books/McGraw-Hill, 2012.

- *Literature developed by the Department*

  Intranet. Department of Pharmacology and Pharmacotherapy. Educational materials.
  MeetStreet

- *Notes*

- *Recommended literature*

Lectures

1 General anaesthetics I
Tamasikné Dr. Helyes Zsuzsanna
2 General anaesthetics II
Tamasikné Dr. Helyes Zsuzsanna
3 Anxiolytic and hypnotic drugs
Sánticsné Dr. Pintér Erika
4 Antipsychotics
Tamasikné Dr. Helyes Zsuzsanna
5 Antidepressants
Tamasikné Dr. Helyes Zsuzsanna
6 Antiepileptics
Dr. Pozsgai Gábor
7 Opioid analgesics I
Dr. Pozsgai Gábor
8 Opioid analgesics II
Dr. Pozsgai Gábor

9 Calcium channel blockers

Tamasikné Dr. Helyes Zsuzsanna

10 Drugs acting on the renin-angiotensin-aldosterone system
Sánticsné Dr. Pintér Erika

11 Diuretics
Dr. Pozsgai Gábor

12 Therapy of congestive heart failure
Tamasikné Dr. Helyes Zsuzsanna

13 Antianginal drugs
Sánticsné Dr. Pintér Erika

14 Pharmacotherapy of hypertension
Sánticsné Dr. Pintér Erika

Practices

Seminars

1 Pharmacotherapy of neurodegenerative disorders. Centrally acting muscle relaxants
2 Hypothalamic and pituitary hormones
3 Thyroid hormones, antithyroid drugs
4 Corticosteroids I
5 Corticosteroids II
6 Estrogens, anti-estrogens, progestogens, antiprogestogens. Postmenopausal hormone replacement therapy
7 Hormonal contraceptives. Androgens, anabolic steroids and antiandrogens
8 Parathormone, calcitonin, vitamin D and pharmacotherapy of osteoporosis
9 Insulin, insulin analogues
10 Oral antidiabetics. Glucagon
11 Pharmacotherapy of hyperlipoproteinemias
12 Drugs acting on the respiratory system I
13 Drugs acting on the respiratory system II
14 Consultation on the pharmacology of the central nervous system
15 Pharmacotherapy of peptic ulcer
16 Emetics, anti-emetics, prokinetic drugs
17 Laxatives, antidiarrhoeal drugs
18 Choleretic and cholekinetic drugs. Drugs protecting the liver. Pharmacotherapy of inflammatory bowel disease
19 Anti-arrhythmic drugs
20 Drugs influencing haemostasis I
21 Drugs influencing haemostasis II
22 Drugs influencing haematopoiesis
23 NSAIDs I
24 NSAIDs II. Pharmacotherapy of gout
25 Immunosuppressants
26 Immunosuppressants. Pharmacotherapy of rheumatoid arthritis
27 Drug abuse I
28 Drug abuse II

Exam topics/questions

1. Drug development
2. Basic mechanisms of drug effects
3. Characteristics of the agonist-receptor interaction
4. Signal transduction
5. Tachyphylaxis and tolerance. Antagonism
6. Absorption
7. Distribution
8. Biotransformation
9. Excretion
10. Quantitative pharmacokinetics
11. Cholinergic agonists. Cholinesterase inhibitors
12. Muscarine receptor antagonists
13. Peripheral muscle relaxants
14. Drugs acting on the synthesis, storage, release and elimination of catecholamines
15. Adrenergic receptor agonists

16. Adrenergic receptor antagonists
17. Histamine and histamine receptor antagonists
18. Serotonin, 5-HT receptor agonists and antagonists
19. Eicosanoids
20. Drugs influencing smooth muscles
21. Local anaesthetics
22. Sulfonamides, trimethoprim. Fluoroquinolones
23. β-lactam antibiotics. Glycopeptide antibiotics
24. Tetracyclines, chloramphenicol, linezolid, clindamycin, metronidazole
25. Aminoglycosides. Macrolides
26. Antituberculotics. Antileprotics
27. Antifungal drugs
28. Antiviral drugs
29. Antiseptics and disinfectants
30. Anticancer drugs: alkylating agents, antimetabolites
31. Anticancer drugs: antibiotics, alkaloids, hormones, biological therapy
32. Cytotoxic and embryotoxic adverse effects of drugs. Drug allergy
33. Drug interactions
34. General anaesthetics
35. Anxiolytic and hypnotic drugs
36. Antipsychotics
37. Antidepressants
38. Antiepileptic drugs. Centrally acting muscle relaxants
39. Pharmacotherapy of neurodegenerative disorders
40. Opioid analgesics: morphine and codeine
41. Opioid analgesics: semisynthetic, synthetic drugs and antagonists
42. NSAIDs: aspirin and paracetamol. Pharmacotherapy of gout
43. NSAIDs except aspirin and paracetamol
44. Calcium channel blockers
45. Drugs acting on the renin-angiotensin-aldosterone system
46. Diuretics
47. Pharmacotherapy of congestive heart failure
48. Antianginal drugs
49. Pharmacotherapy of hypertension
50. Anti-arrhythmic drugs
51. Pharmacotherapy of hyperlipoproteinemias
52. Drugs influencing haemostasis
53. Drugs influencing haematopoiesis
54. Drugs acting on the respiratory system: pharmacotherapy of bronchial asthma
55. Drugs acting on the respiratory system: Pharmacotherapy of allergic rhinitis. Antitussive, expectorant and mucolytic drugs
56. Pharmacotherapy of peptic ulcer
57. Emetics, anti-emetics, prokinetic drugs
58. Laxatives, antidiarrhoeal drugs. Choleretic and cholekinetic drugs. Drugs protecting the liver. Pharmacotherapy of inflammatory bowel disease
59. Hypothalamic and pituitary hormones
60. Thyroid hormones and antithyroid drugs
61. Corticosteroids
62. Estrogens, anti-estrogens, progestogens, antiprogestogens
63. Postmenopausal hormone replacement therapy. Hormonal contraceptives
64. Androgens, anabolic steroids and anti-androgens
65. Parathormone, calcitonin, vitamin D and pharmacotherapy of osteoporosis
66. Insulin, insulin analogues. Oral antidiabetic drugs. Glucagon
67. Immunosuppressants. Immunomodulators. Pharmacotherapy of rheumatoid arthritis
68. Drug abuse: General aspects. Opioids, central nervous system depressants
69. Drug abuse: psychomotor stimulants, hallucinogens, cannabis

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Bölcskei Kata (BOKFABO.PTE), Dr. Pozsgai Gábor (POGFAAO.PTE), Sánticsné Dr. Pintér Erika (PIEMAAO.PTE), Tamasikné Dr. Helyes Zsuzsanna (HEZFAAO.PTE)

OSK-PD1-T PERIODONTOLOGY 1 - PERIODONTOLOGY

Course director: **DR. ÁGNES BÁN**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 20**

Prerequisites: **OSA-IMM-T completed + OSP-ORB-T completed + OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Classification, etiology of periodontal diseases. Basic treatment strategies.

Conditions for acceptance of the semester

According to the Code of Studies and Examinations, Annex 2., Section 1/A (6):

Who is absent from more than 15% of the practical courses or more than 15% of the lectures cannot be granted entry to examination.

Being late for more than 10 minutes from the practical courses or leaving it without the permission of the leader of the practice is considered as an absence.

According to the Code of Studies and Examinations, Annex 2., Section 4. (6):

The leader of the practice shall have the right to exclude a student from bedside practice (class) in the case of any unpreparedness endangering the health of the patient. Exclusion from the given practice shall qualify as absence without a certified excuse.

Mid-term exams

-

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  Jan Lindhe: Clinical Periodontology and Implant Dentistry

Lectures

1 Examination of the periodontium, charting
Dr. Tóth Vilmos

2 Individual oral hygiene, instruction and motivation
Dr. Tóth Vilmos

3 Scaling and root planing
Dr. Tóth Vilmos

4 Deposits on tooth surfaces
Dr. Tóth Vilmos

5 Classification of periodontal diseases
Dr. Tóth Vilmos

6 Role of bacteria in the etiology of periodontal disease
Dr. Tóth Vilmos

7 Local factors in the etiology of periodontal diseases
Dr. Tóth Vilmos

8 Systemic factors in the etiology of periodontal diseases
Dr. Tóth Vilmos

9 Pathogenesis of plaque induced periodontitis
Dr. Tóth Vilmos

10 Epidemiology of periodontal diseases. Periodontal indices. Prognosis of teeth.
Dr. Tóth Vilmos

11 Clinical signs of gingivitis, therapy
Dr. Tóth Vilmos
12 Clinical signs of periodontitis, therapy
Dr. Tóth Vilmos
13 Acute periodontal conditions and their management
Dr. Tóth Vilmos
14 Maintenance and recall. Prognosis
Dr. Tóth Vilmos

Practices

1-28 Patient treatment

Seminars

Exam topics/questions

Exam questions:

1. Structure and function of the gingiva, the gingival sulcus
2. Structure and function of the periodontal ligament, mechanism of eruption, epithelial attachment
3. Structure and function of cementum and alveolar bone
4. Plaque formation, supra and subgingival plaque
5. Calculus, materia alba, and other deposits on tooth surfaces
6. Role of bacteria in periodontal diseases
7. Local factors with natural origin in the etiology of periodontal diseases
8. Local factors with iatrogenic origin in the etiology of periodontal diseases
9. The role of trauma from occlusion in the etiology of periodontal diseases
10. Stages of periodontal inflammation: initial and early lesions
11. Stages of periodontal inflammation: established and advanced lesions
12. Necrotizing ulcerative gingivitis, symtoms, stages
13. Differential diagnosis of necrotizing ulcerative gingivitis, therapy
14. Plaque induced gingivitis, symptoms, differential diagnosis, therapy (except ANUG)
15. Chronic periodontitis
16. Aggressive periodontitis
17. Morphology of periodontal attachment loss
18. The periodontal abscess
19. Patient examination, charting
20. Diagnosis, treatment plan and prognosis of periodontal diseases
21. Aim of motivation, materials and methods
22. Aim of instruction, materials and methods
23. Toothbrushing techniques, purpose, materials and methods
24. Interdental cleaning
25. Scaling and polishing
26. The CPITN and the treatment plan
27. Maintenance and recall, risk groups
28. Aim of periodontal surgery
29. Splinting and correction of occlusion
30. Classification of gingival diseases
31. Classification of periodontal diseases

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Mandel Iván (MAIFABO.PTE), Dr. Tóth Vilmos (TOVLAAO.PTE)

OSK-SZ2-T ORAL SURGERY 2

Course director: **DR. JÓZSEF SZALMA**, associate professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSP-OFO-T completed + OSP-PA2-T completed + OSK-SZ1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this subject is to give basic information about inflammations of the maxillofacial region, schisis, dysgnathia problems, implantation and preprosthetic surgery.

Conditions for acceptance of the semester

Attendance on lectures and practices is obligatory. No make up for missed classes. Missing more than 20% will automatically reject semester acceptance [i.e. 3 or more missing on lectures, or 3 or more missing from practices (where one practice block is 90=2x45 minutes)] and the semester has to be repeated.

Mid-term exams

There are no written tests during the semester, but students should answer any adequate questions of the practice leader before patient treatments, regarding anamnesis, diseases of the patient, steps of the dental or oral surgical procedure.

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*

  Szabo Gy.: Oral and Maxillofacial Surgery, Semmelweis, 2001.

- *Literature developed by the Department*

  Lecture notes

- *Notes*

- *Recommended literature*

  Stanley F. Malamed: Local Anesthesia, Mosby 1990
  Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998

Lectures

1 Maxillofacial cysts. Cysts of the jaws and soft tissues. Cyst surgery.
Dr. Szalma József

2 Antral inflammation due to dental origin. Sinusitis maxillaris odontogenes
Dr. Szalma József

3 Sinusperforation. Radix-in-antro. Surgical techniques of sinus closure.
Dr. Szalma József

4 Inflammatory diseases of salivary glandes I. Sialoadenitis
Dr. Szalma József

5 Inflammatory diseases of salivary glandes I. Sialolythiasis, cysts
Dr. Szalma József

6 Differential diagnostic steps in dentoalveolar and maxillofacial inflammations
Dr. Szalma József

7 Bleeding disorders. Coagulopathies, thrombopathies, vasopathies. Haemorrhagic diathesis. Anticoagulated patients going under surgical treatment.
Dr. Szalma József

8 Disturbance of growth in the maxillofacial region. Cheilo- and gnathoschisis. Plastic surgery of lip and palate.
Dr. Olasz Lajos

9 Surgical way of dysgnathia. Progenia, prognathia, aperognathia, micrognathia.
Dr. Olasz Lajos

10 Preprosthetic surgery. Bone corrections.
Dr. Olasz Lajos

11 Basic information about implantation
Dr. Szalma József
12 Differential diagnosis of trismus.
Dr. Olasz Lajos
13 Radiological signs in the aspects of dentoalveolar diseases.
Dr. Szalma József
14 Osteodistraction. Hard tissue augmentation
Dr. Szalma József

Practices

1-28 Patient treatment in the clinical practice

Seminars

Exam topics/questions

1. Surgical asepsis and antisepsis
2. General and local anesthesia
3. Local anesthesia of dental and oral surgery practice
4. Extractions. Removal of teeth and roots
5. Surgical removal of teeth and roots
6. Surgical removal of impacted and retinaed teeth
7. Inflammations of the maxillofacial regions
8. Surgery of the periapical space
9. Periostitis. Abscess and cellulitis from dental origin
10. Osteomyelitis
11. Non-specific inflammations of the soft tissues of the face
12. Phlegmone. Facial spaces
13. Cysts of the maxillofacial area
14. Maxillary sinusitis of dental origin
15. Tooth extractions in bleeding disorders
16. Disturbance of growth in the maxillofacial region
17. Dysgnath surgery
18. Inflammatory diseases of salivary glands
19. Differential diagnostic steps in dentoalveolar and maxillofacial inflammations
20. Preprosthetic surgery
21. Differential diagnosis of trismus
22. Radiological signs in the aspects of dentoalveolar diseases
23. Surgical relevations in implant dentistry
24. Abscess. Local anesthesia of inflammated regions. Basic rules of incisions.
25. Facial clefts and their complex therapy
26. Diagnostic methods in salivary disorders
27. Osteoradionecrosis. BION
28. Osteodistraction. Bone augmentation and grafting
29. Facial spaces and their importance in maxillofacial surgery.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Olasz Lajos (OLLPAAP.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZJFACO.PTE), Dr. Vajta László Ferenc (VALMAAO.PTE)

OSR-INF-T INTEGRATED DENTISTRY

Course director: **DR. MÁRTA MÁRIA RADNAI**, professor
Department of Dentistry, Oral and Maxillofacial Surgery

0 credit ▪ **signature** ▪ **Criterion requirement subject** ▪ **spring semester** ▪ recommended semester: **8**

Number of hours/semester: **0** lectures **+ 140** practices **+ 0** seminars = total of **140** hours

Course headcount limitations (min.-max.): **2 – 24** *Prerequisites:* **OSK-END-T parallel + OSK-FL3-T parallel**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this subject is to summarise all knowledge from different fields of dentistry in practice.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

-

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Shillingburg HT, Jacobi R, Brackett SE: Fundamentals of Tooth Preparation. Quintessence, 2nd edition, ISBN 0-86715-157-9

  SF Rosenstiel, MF Land, J Fujimoto: Contemporary Fixed Prosthodontics, 3rd edition, 2001, ISBN 0-8151-5559-X

  Zarb, GA, Bolender, ChL (ed.): Prosthodontic Treatment for Edentulous Patients. Complete Dentures and Implant-Supported Prostheses, 12th edition, Mosby, 2004

  Radnai: Removable Partial Dentures, Medicina, 2012.

- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

Lectures

Practices

1-140 Patient treatment according to the actual treatment needs

Seminars Exam topics/questions

-

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Baumann Petra Henrietta (BAPFADO.PTE), Dr. Benke Beáta (BEBFADO.PTE), Dr. Lempel Edina (LEEFABO.PTE), Dr. Marada Gyula (MAGFABO.PTE), Dr. Muzsek Zsófia (MUZFACO.PTE)

OSK-BOR-T DERMATOLOGY

Course director: **DR. ROLLAND PÉTER GYULAI**, professor
Department of Dermatology, Venereology and Oncodermatology

2 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 14** practices **+ 0** seminars = total of **28** hours

Course headcount limitations (min.-max.): **5 – 140** *Prerequisites:* **OSA-IMM-T completed + OSP-BPR-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Aim of the subject:

The purpose of the education in Dermatology is to get the students acquainted with the clinical and epidemic features of dermatological and venereal diseases in the dental medical practice, moreover their pathomechanisms and therapeutic possibilities.

The students pick up a reliable and necessary knowledge on the treatment of the most common dermatological disorders throughout the patient examinations and interventions/procedures under the auspices of practical education.

Postulates:

Dermatology is taught for a semester in the 5th year at the Medical School. One hours of theoretical and one hours of practical education are provided each week. Participation in the lecture in the practical education is obligatory.

Conditions for acceptance of the semester

Examination: at the end of the semester of Dermatology education the students are obliged to take a semester examination.

The examination's test is written.

Mid-term exams

.

Making up for missed classes

Misses of the practice is not accepted.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  T. B. Fitzpatrick, R.A. Johnson, K. Wolff, D. Suurmond: Color Atlas and Synopsis of Clinical Dermatology. Common and Serious Diseases, 4th edition, The McGraw-Hill Companies, United States of America, 2001, ISBN 0071360387, International Edition ISBN 007116295X

  J. A. A. Hunter: Clinical Dermatology, Blackwell Scientific Publications, 1992, ISBN 0632019557

Lectures

1 The structure and function of the skin and mucous membranes. Primary and secondary lesions.
Dr. Gyulai Rolland Péter

2 Basic immunopathologic reactions. Allegic skin diseases and urticaria.
Dr. Kinyó Ágnes

3 Drug eruptions, vasculitis and purpura.
Dr. Kinyó Ágnes

4 Dermatitis. Eczema. Atopic dermatitis.
Dr. Kinyó Ágnes

5 Vesiculobullosus skin diseases.
Dr. Gyulai Rolland Péter

6 Bacterial and fungal diseases with cutaneous involvement.
Dr. Szepes Éva

7 Viral and parasitic diseases with cutaneous involvement
Dr. Szepes Éva

8 Sexually transmitted diseases. AIDS.
Dr. Gyulai Rolland Péter

9 Oncodermatology I. Benign disorders of the cutaneous melanocytes. Precancerous diseases.
Dr. Lengyel Zsuzsanna
10 Oncodermatology II. Melanoma. Non-melanoma skin cancers.
Dr. Lengyel Zsuzsanna
11 Psoriasis and other papulosquamous diseases.
Dr. Gyulai Rolland Péter
12 Seborrhoeic dermatoses. Acne, rosacea, perioral dermatitis.
Dr. Moezzi Mehdi
13 Disorders of mucocutaneous integument.
Dr. Moezzi Mehdi
14 Topical and systemic therapy in dermatology
Dr. Lengyel Zsuzsanna

Practices

1 Patient examination
2 Dermatologycal history
3 Bacterial skin infection
4 Viral skin infection
5 Fungal skin infection
6 Tests in allergic disorders
7 Examination of STD patient
8 Investigations in auto-immun diseases
9 Drug eruptions treatment
10 Psoriasis and it`s variant
11 Investigations in auto-immun diseases
12 Skin tumors
13 Mucosal diseases1
14 Mucosal diseases2

Seminars

Exam topics/questions

Examination: at the end of the semester of Dermatology education the students are obliged to take a semester examination. The examination's test is written.

1. Psoriasis
2. Pyodermas
3. Basal cell carcinoma and squamous cell carcinoma
4. Atopic dermatitis
5. Skin diseases caused by human papilloma virus (HPV)
6. Herpes simplex virus (HSV) infections of the skin
7. Skin diseases caused by varicella zoster virus
8. Autoimmune bullous skin diseases
9. Malignant melanoma
10. Fungal diseases of the skin and its appendages
11. Drug allergy
12. Urticaria
13. Scabies, pediculosis
14. Pigmented nevi
15. Vasculitis
16. Contact dermatitis
17. Praecancerous lesions and intraepidermal carcinomas
18. Cutaneous and mucosal manifestations and treatment of syphilis
19. Diagnosis and treatment of gonorrhoea
20. Primary and secundary skin lesions, basics of dermatohistopathology
21. Topical therapy in dermatology
22. Systemic therapy in dermatology
23. Acne and its treatment
24. Lichen planus
25. Clinical outcome and symptomes of HIV infection
26. Rosacea, rhinophyma
27. The structure of the skin and its function

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Gyulai Rolland Péter (GYRVAAO.PTE), Dr. Kinyó Ágnes (KIAVACO.PTE), Dr. Lengyel Zsuzsanna (LEZFAAO.PTE), Dr. Moezzi Mehdi (MOMSAAP.PTE), Dr. Rózsa Annamária (ROAGAAO.PTE)

OSK-E3F-T ORTHODONTICS 3 - THEORY

Course director: **DR. ISTVÁN SOMOSKÖVI**, assistant lecturer
Department of Dentistry, Oral and Maxillofacial Surgery

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **1 – 100** *Prerequisites:* **OSK-E2F-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this subject is that graduate students can acquire the knowledge regarding the aetiological factors and characteristics of orthodontic anomalies as well as possible treatment strategies. This is necessary for general dental practitioners to be able to recognise orthodontic problems and to take part in interdisciplinary collaboration.

Conditions for acceptance of the semester

Attending the lectures is obligatory. A maximum of two missings is accepted.

Mid-term exams

Making up for missed classes

None.

Reading material

- *Obligatory literature*

  Lecture notes (uploaded on Neptun)

- *Literature developed by the Department*

  Lecture notes

- *Notes*

- *Recommended literature*

Lectures

1 Treatment philosophies in Class I malocclusion
Dr. Somoskövi István
2 Treatment philosophies in Class II malocclusion
Dr. Somoskövi István
3 Treatment philosophies in Class III malocclusion
Dr. Somoskövi István
4 Simple interventions in orthodontics. Role of the general dentist in prevention and treatment of anomalies
Dr. Somoskövi István
5 Extraoral orthodontic appliances
Dr. Somoskövi István
6 Dentoalveolar surgical procedures with orthodontic indications
Dr. Somoskövi István
7 Interdisciplinary relationships in dentistry
Dr. Somoskövi István
8 Adult orthodontics
Dr. Somoskövi István
9 Facial aesthetics
Dr. Somoskövi István
10 Complex treatment of patients with cleft lip and palate
Dr. Somoskövi István
11 Combined surgical and orthodontic treatment (orthognathic surgery, distraction osteogenesis)
Dr. Somoskövi István
12 Retention and relapse
Dr. Somoskövi István
13 Skeletal anchorage (TADs)
Dr. Somoskövi István
14 Adverse effects of orthodontic treatment
Dr. Somoskövi István

Practices

Seminars

Exam topics/questions

Before starting the oral exam students are required to analyse an OP radiograph. Showing competence in the analysis is a requirement of entering the oral exam. For those who fail, the result of the exam is „failed" (grade 1).

1. Definition and types of orthodontic anomalies
2. Aetiology of orthodontic anomalies
3. Steps of making an orthodontic diagnosis
4. Orthodontic model analysis
5. Cephalometry
6. Radiology in orthodontics
7. Development of face and jaws in the intrauterine life
8. Normal growth process from birth until complete development of the primary dentition
9. Normal growth of the jaws from the primary dentition to the end of development
10. Phases and prediction of development
11. Syndromes of the orofacial region
12. Changing aspects of the orthodontic treatment from the early years to present times
13. Aims of the orthodontic treatment
14. Timing and phases of orthodontic treatment
15. Biological basis of tooth movement
16. Orthodontic biomechanics. Properties of metals used in orthodontics
17. Removable orthodontic appliances: materials, construction, effects
18. Fixed orthodontic appliances: materials, construction, effects
19. Extractions with orthodontic indication
20. Jaw orthopaedics
21. Treatment philosophies and appliances used in Class I malocclusion
22. Treatment philosophies and appliances used in Class II malocclusion
23. Treatment philosophies and appliances used in Class III malocclusion
24. Simple interventions in orthodontics. Role of the general dentist in prevention and treatment of anomalies
25. Extraoral orthodontic appliances
26. Dentoalveolar surgical procedures with orthodontic indications
27. Interdisciplinary relationships in dentistry
28. Adult orthodontics
29. Facial aesthetics
30. Complex treatment of patients with cleft lip and palate
31. Combined surgical and orthodontic treatment (orthognathic surgery, distraction osteogenesis)
32. Retention and relapse
33. Skeletal anchorage (TADs)
34. Adverse effects of orthodontic treatment

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-EFE-T ESTHETIC DENTISTRY - BASICS

Course director: **DR. GYULA MARADA**, clinical specialist
Department of Dentistry, Oral and Maxillofacial Surgery

1 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **2 – 25** *Prerequisites:* **OSK-FL3-T completed + OSK-KF1-T parallel**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim of this course is to introduce the esthetic dentistry for dental students. During the course the students has possibility to learn modern and conventional techniques theoretically.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Ronald E. Goldstein: Esthetics in Dentistry, 2nd edition
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

Lectures

1 Smile design
Dr. Lempel Edina
2 Ceramics
Dr. Lempel Edina
3 Composits
Dr. Lempel Edina
4 Indirect composite veneers
Dr. Lempel Edina
5 Direct composite veneers
Dr. Lempel Edina
6 Layering technique of composites in the molar region
Dr. Lempel Edina
7 Inlay, onlay preparation
Dr. Lempel Edina
8 Colors, phisiological background of color perception
Dr. Marada Gyula
9 Tooth color matching
Dr. Marada Gyula
10 Photo documentation in dentistry
Dr. Marada Gyula
11 Macro esthetics in prosthodontics
Dr. Marada Gyula
12 Diagnostic wax-up and trial denture
Dr. Marada Gyula
13 CAD/CAM technique in dentistry
Dr. Marada Gyula
14 Communication in dentistry
Dr. Marada Gyula

Practices

Seminars

Exam topics/questions

Written test

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-FL4-T PROSTHODONTICS 4

Course director: **DR. MÁRTA MÁRIA RADNAI**, professor
Department of Dentistry, Oral and Maxillofacial Surgery

6 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **0** lectures **+ 56** practices **+ 28** seminars = total of **84** hours

Course headcount limitations (min.-max.): **1 – 25**

Prerequisites: **OSK-END-T completed + OSK-FL3-T completed + OSK-PD1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The course focuses on the practical aspects of prosthetic therapy. The studied theories and guidelines are applied in the particular cases. Students practice patient examination, diagnosis, planning, treatment steps and maintenance.

Conditions for acceptance of the semester

Successful midterm written assignment. The students must complete the pensum which is handled during the first week of the semester. During the semester the students should make a PowerPoint presentation of their works in the dental practise, which is needed to be handled in the last week of the semester to the course director or practice director.The theoretical knowledge of the student is evaluated by the practice leader in orla or written form. If the students' theoretical knowledge not acceptable the student can not participate in the practice.

Mid-term exams

One midterm test: dental materials and complete denture topics and a complete patient presentation in written form.

Making up for missed classes

No possibility

Reading material

- *Obligatory literature*

  G Zarb et al.: Prosthodontic Treatment for Edentulous Patients, Elsevier
  Geering A, Kundert M, Kelsey CC: Complete Denture and Overdenture Prosthetics, Thieme
  Radnai M: Removable Partial Denture, Medicina, 2012
  Shillingburg HT, Jacobi R, Brackett SE: Fundamentals of Tooth Preparation. Quintessence, 2nd printing
  SF Rosenstiel, MF Land, J Fujimoto: Contemporary Fixed Prosthodontics, 3rd ed., 2001

- *Literature developed by the Department*

  Lectures

- *Notes*

- *Recommended literature*

Lectures

Practices

1-56 Patient treatment according to actual patient needs

Seminars

1-28 Treatment plan construction and demonstration

Exam topics/questions

-

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Benke Beáta (BEBFADO.PTE), Dr. Marada Gyula (MAGFABO.PTE), Dr. Muzsek Zsófia (MUZFACO.PTE), Dr. Radnai Márta Mária (RAMVAAP.PTE)

OSK-FUL-T OTOLARYNGOLOGY FOR DENTISTS

Course director: **DR. IMRE GERLINGER**, professor
Department of Oto-rhino-laryngology

2 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 14** practices **+ 0** seminars = total of **28** hours

Course headcount limitations (min.-max.): **1 – not limited** *Prerequisites:* **OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Selections from the fundamental parts of the ORL
The main educational task of the subject: Learning the basics of ORL.

Conditions for acceptance of the semester

Acceptance of the semester: Participation in the lectures and practices. Missing of two lectures accepted

Mid-term exams

There is no possibility

Making up for missed classes

There is no possibility

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  Readings: Karmody: Otorhinolaryngology
  www.peditop.com www.meditopEU.com

Lectures

1 Introduction into Otorhinolaryngology
Dr. Gerlinger Imre
2 Anatomy of the ear, physiology of hearing
Dr. Gerlinger Imre
3 Subjective and objective audiometry
Dr. Gerlinger Imre
4 Disaeases of the external ear, myringitis
Dr. Gerlinger Imre
5 Diseases of the middle ear. Acute otitis media
Dr. Gerlinger Imre
6 Diseases of the middle ear. Chronic otitis media
Dr. Gerlinger Imre
7 Complications of suppurative otitis media
Dr. Gerlinger Imre
8 Inner ear diseases, cochlear implants, BAHA, VSB
Dr. Gerlinger Imre
9 Vertigo. Tinnitus
Dr. Gerlinger Imre
10 Diseases of the paranasal sinuses, acut and chronic sinusitis
Dr. Gerlinger Imre
11 Tumors of the paranasal sinuses
Dr. Gerlinger Imre
12 Malignant tumours of the larynx, hypopharynx. Conicotomy, tracheotomy. Precancerous diseases, TNM system
Dr. Gerlinger Imre
13 Diseases of the oral cavity. Acute tonsillitis, chronic tonsillitis. Tonsillectomy. Sore throat
Dr. Gerlinger Imre
14 Diseases of the salivary glands. Salivary gland tumors.

Dr. Gerlinger Imre

Practices

1 Examine the patient`s ear. Examine the patient`s nose and nasal cavities (antenior rhinoscopy)
2 Hearing aids, irrigation of external ear canal, removal of foreign bodies from the external ear
3 Examine the patient's oral cavity.Examine the patient's larynx and hypopharynx (indirect laryngoscopy)
4 Examine the patient's nasopharynx (posterior rhinoscopy). Test of the patient's hearing (voice, Weber test, Rinne test)
5 Test of the patient's vestibular system (spontaneous nystagmus Romberg test). Test of the patient's function of the facial nerve
6 Test of the patient's neck. Draining of a peritonsillar abscess
7 Test of the patient's cerebellar signs . Caloric test
8 Tests of the patient's Eustachian tube function. Myringotomy
9 Control of epistaxis. Antral lavage
10 Feeding by nasogastric tube. Tracheal tubes
11 X -ray films, CT, MR, US demonstration
12 Pure tone audiometry. Speech audiometry
13 Otoacoustic emissions
14 Brainstem evoked response audiometry

Seminars

Exam topics/questions

Requirements of the final examination

I. Physical examination by head-mirror /headlight/

Examine the patient's

1. ear
2. nose and nasal cavities /anterior rhinoscopy/
3. oral cavity
4. larynx and hypopharynx /indirect laryngoscopy/
5. nasopharynx /posterior rhinoscopy/

II. A. Clinical tests

Test the patient's

1. hearing /voice, Weber test, Rinne test/
2. vestibular system /spontaneous nystagmus, Romberg test, past-pointing, walking/
3. neck, salivary glands
4. function of the facial nerve
5. cerebellar signs
6. Eustachian tube function

II. B. Demonstrate how to use the instruments of

1. control of epistaxis
   - anterior nasal packing
   - posterior nasal packing
2. myringotomy
3. feeding by nasogastric tube
4. tracheal tubes
5. hearing aids
6. antral lavage
7. draining of a peritonsillar abscess
8. irrigation of external ear canal
9. removal of foreign bodies from the external ear canal and nose

III. Theoretical questions

1. Pure tone audiometry
2. Speech audiometry
3. Otoacoustic emissions
4. Brainstem evoked response audiometry
5. Diseases of the pinna
6. Diseases of the external ear canal
7. Disorders of the tympanic membrane
8. Tumours of the external ear (benign tumours, praecancerous disorders, malignant tumours)
9. Serous otitis media (acute, chronic)
10. Suppurative otitis media (acute, chronic)

11. Complications of suppurative otitis media
12. Idiopathic facial nerve palsy. Bell-palsy
13. Disorders of the inner ears, congenital malformations, hereditary deafness
14. Trauma to the inner ear
15. Otosclerosis
16. Fluid systems of the labyrinth. Pathological disorders. Méniére diseases
17. Acoustic tumour
18. Tinnitus
19. Noise induced hearing losses
20. Cochlear implantation
21. Disorders of the internal auditory canal (fractures, tumours, toxic lesions)
22. Sleep apnoea
23. Diseases of the external nose (congenital malformations, trauma, infection, tumours. Furunculus nasi)
24. Obstruction of the nasal airway. Rhinitis
25. Allergic rhinitis
26. Fractures of the paranasal sinuses. Fronto-basal, maxillo-facial, blow out fractures, Le-Fort fractures
27. Paranasal sinusitis
28. Tumours of the salivary glands (benign and malignant)
29. Sialoadenitis
30. Differential diagnosis of the neck masses
31. Infectious diseases of the oral cavity and pharynx (peritonsillar abscess)
32. Pathology of Waldeyer ring
33. Praecancerous disorders in the oral cavity, pharynx, larynx and oesophagus
34. Malignant tumours in the oral cavity and pharynx (nasopharyngeal tumours)
35. Clinical symptoms and signs of the diseases of the larynx
36. Sensory and motor innervation of the larynx, signs of the disorders
37. Acute and chronic infections of the larynx
38. Acute epiglottitis. Phlegmonous epiglottitis. Abscess of the epiglottis
39. Benign tumours of the larynx
40. Laryngeal cancer
41. Classifications of laryngeal cancers. TNM
42. Lymphadenitis of the neck
43. Benign tumours of the neck
44. Thyroiditis
45. Malignant tumours of the thyroid gland
46. Clinical signs of obstructions of the upper airways. Conicotomy. Tracheotomy
47. Foreign bodies in the bronchial system. Foreign bodies of the oesophagus
48. Tumours of the oesophagus
49. Dysphagia

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Gerlinger Imre (GEIOAA-K.PTE), Dr. Révész Péter (REPHAAO.PTE)

OSK-GYE-T PAEDIATRICS FOR STUDENTS OF DENTISTRY

Course director: **DR. KATALIN OHMACHT-HOLLÓDY**, associate professor
Department of Paediatrics

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **1 – 50** *Prerequisites:* **OSP-BPR-T completed + OSP-KO2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

There are at least three good reasons why parts of the paediatric knowledge should be studied also by students of dentistry. Firstly, dentists are doctors of medicine, who might be required to provide first aid to children or to give advice to parents of children with health problems. Therefore dentists should be aware of the basic concepts of the treatment of such common problems of children like fever, seizure or allergic reaction. Secondly, the society does not differentiate between the opinion of doctors with medical diploma; hence, dentists should have proper information about the up-to-date general questions of caring for the sick child within the society. Thirdly, dentists treat also children with chronic health problems, therefore basic concepts of the treatment of chronic paediatric diseases should be known by dentists as well.

Conditions for acceptance of the semester

Presence at least 75% of the lectures.

Mid-term exams

Interactive presentations

Making up for missed classes

There is no possibility to ameliorate the consequences of missing more than 25% of the course.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Slides, handouts.
  The summaries of the lectures can be found on the homepage of our department: http://aok.pte.hu/en/egyseg/dokumentumok/350
- *Notes*
- *Recommended literature*

  Marcdante K, Kliegman R: Nelson Essentials of Pediatrics, 7th edition, Elsevier 2015

Lectures

1 Special problems of the neonatal period and infancy I
Dr. Ohmachtné Dr. Hollódy Katalin
2 Special problems of the neonatal period and infancy II
Dr. Ohmachtné Dr. Hollódy Katalin
3 Bacterial infectious diseases
Dr. Ohmachtné Dr. Hollódy Katalin
4 Viral infectious diseases
Dr. Ohmachtné Dr. Hollódy Katalin
5 Heart defects, respiratory diseases
Dr. Stankovics József
6 Allergic diseases
Dr. Stankovics József
7 Burns and intoxications
Dr. Stankovics József
8 Endocrinological diseases
Dr. Ohmachtné Dr. Hollódy Katalin
9 Resuscitation of the infant and child
Dr. Stankovics József
10 Renal and urinary tract diseases
Dr. Ohmachtné Dr. Hollódy Katalin

11 Neurological diseases in the childhood
Dr. Ohmachtné Dr. Hollódy Katalin
12 Gastroeneterological diseases
Dr. Stankovics József
13 Disturbances of hameostasis
Dr. Stankovics József
14 Antibiotic treatment, treatment of fever
Dr. Ohmachtné Dr. Hollódy Katalin

Practices

Seminars

Exam topics/questions

See at the homepage of Dept. of Paediatrics (Documents) http://aok.pte.hu/en/egyseg/dokumentumok/350

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

OSK-IGU-T FORENSIC MEDICINE

Course director: **DR. FRANCISKA KÖNCZÖL**, associate professor
Department of Forensic Medicine

1 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **3 – not limited** *Prerequisites:* **OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Forensic medicine is an applied science to help the purposes of justice. It involves some basic knowledge for dental doctors: regulation of medical practice, nature and definition of death, important actions in the case of death. There are some special aspects for dental doctors: personal identification, injuries of the mouth, bite marks. Also it is important to learn about the effects of ethanol consumption, drugs, and the most frequent toxins.

Conditions for acceptance of the semester

Colloquium. Absences accepted according to the exam rules.

Mid-term exams

Making up for missed classes

Individual agreement.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  Péter Sótonyi, Éva Keller (eds.): Lecture Notes of Forensic Medicine, Semmelweis Publisher, Budapest, 2008.

Lectures

1 Introduction. Post-mortem investigations
Dr. Kozma Zsolt
2 Healthcare law. Medical Malpractice
Dr. Kozma Zsolt
3 Post-mortem changes
Dr. Simon Gábor
4 Vital Signs and reactions
Dr. Simon Gábor
5 DNA
Poór Viktor Soma
6 Toxicology
Dr. Mayer Mátyás
7 Wounds and Injuries
Dr. Simon Gábor
8 Bite Marks
Dr. Simon Gábor
9 Head injuries.
Dr. Simon Gábor
10 Human identification.
Dr. Tóth Dénes
11 Traffic Accidents
Dr. Simon Gábor
12 Burns
Dr. Simon Gábor
13 Asphyxia
Dr. Simon Gábor
14 Electrocution
Dr. Simon Gábor

Practices

Seminars

Exam topics/questions

1. Health care law.
2. Physicians? responsibility
3. Dental aspects of working ability
4. Sudden and unexpected death.
5. Death and autopsy, post mortem changes.
6. Vital signs.
7. Forensic traumatology.
8. Types of injuries.
9. Special injuries in the dental practice.
10. Injuries of the mouth and the teeth.
11. Injuries of the skull.
12. Bite wounds.
13. Injuries caused by traffic accidents.
14. Dental aspects of identifications.
15. Sex and age determination with dental methods.
16. Dental aspects of paternity investigations.
17. Identification with the help of radiology. Superimposition.
18. Patient's rights.
19. The effects of ethanol, drunkenness.
20. Acut and chronic intoxications and their dental signs.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Kozma Zsolt (KOZEAC.K.JPTE), Dr. Mayer Mátyás (MAMSABP.PTE), Dr. Simon Gábor (SIGFACO.PTE), Poór Viktor Soma (POVFAB.T.JPTE)

OSK-KF1-T OPERATIVE DENTISTRY - OPERATIVE DENTISTRY 1

Course director: **DR. EDINA LEMPEL**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

2 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **0** lectures **+ 28** practices **+ 0** seminars = total of **28** hours

Course headcount limitations (min.-max.): **3 – 25**

Prerequisites: **OSK-CAA-T completed + OSK-END-T completed + OSK-GF2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Principles of caries and endodontic diagnosis and treatment strategies. Problem solving in difficult cases.

Conditions for acceptance of the semester

Attending the classes, according to the rules of the Code of Studies and Examinations (Max 15% absence is accepted from the lectures and from the practices). 10 minutes late is equal with an absence.

10 minutes late from the practice is considered as an absence.

In case of lack of basic knowledge/preparedness the supervisor can refuse the participation.

Mid-term exams

Further requirement to collect minimum 7 scores from the treatments.

Scores of the treatments:

Esthetic filling: Class I., V.: 0,75

Esthetic filling: Class II., III., IV.: 1,25

Trepanation, enlargement of front teeth: 1,00

Trepanation, enlargement of premolar teeth: 1,25

Trepanation, enlargement of front teeth: 2,00

Root canal filling of front teeth: 0,50

Root canal filling of premolar teeth: 0,75

Root canal filling of molar teeth: 1,00

Inlay/onlay: 3,00

Status: 0,30

Scaling/arch: 0,30

During the semester 2 tests will be written (accepted result min. 60%). If none of the tests reaches the 60% the semester is not accepted. If one of the tests is less than 61%, there is possibility to improve it during the semester.

Inadequate preparedness on the practice, improper treatment of the patient may lead to denial of the semester.

Making up for missed classes

None

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  John R. Sturdevant: Art and Science of Operative Dentistry
  Stephen Cohen: Pathways of the Pulp
  Robert G. Craig: Restorative Dental Materials

Lectures

Practices

1-28 Conservative dental treatment of recalled patients.

Seminars

Exam topics/questions

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Lempel Edina (LEEFABO.PTE), Dr. Schreindorfer Károly (SCKPABO.PTE)

OSK-MEN-T PUBLIC HEALTH (2014ESEKIG)

Course director: **DR. ISTVÁN KISS**, professor
Department of Public Health Medicine

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **28** lectures **+ 14** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – not limited** *Prerequisites:* **OSP-KO2-T completed + OSP-MI1-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Public Health represents the preventive side of medicine. The subject deals with primary, secondary and tertiary prevention of the most challenging diseases of public health.

The aims are to exam the process of disease development and demonstrate the possibilities of prevention on individual and community levels.

Conditions for acceptance of the semester

Participation in practicals is obligatory which is registered.

Absences should not exceed 2x45 min. Otherwise signature of grade book is denied.

Mid-term exams

Making up for missed classes

-

Reading material

- *Obligatory literature*

  Edit Paulik: Public Health and Preventive Medicine, Medicina Publishing House, Budapest 2013.

- *Literature developed by the Department*

  Educational material uploaded on Neptun.

- *Notes*

- *Recommended literature*

Lectures

1 Leading causes of mortality and morbidity worldwide.
Dr. Kiss István

2 The definition of health and disease. Health determinants.
Dr. Kiss István

3 Levels of prevention.
Dr. Marek Erika Mária

4 Demography.
Dr. Marek Erika Mária

5 Epidemiology and prevention of cardiovascular diseases I.
Dr. Kiss István

6 Epidemiology and prevention of cardiovascular diseases II.
Dr. Kiss István

7 Epidemiology and prevention of other non-communicable diseases. (diabetes, obesity)
Dr. Németh Katalin

8 Epidemiology and prevention of other non-communicable diseases. (osteoporosis)
Dr. Kiss István

9 Epidemiology and prevention of cancer I.
Dr. Kiss Zsuzsanna

10 Epidemiology and prevention of cancer II.
Dr. Kiss Zsuzsanna

11 Epidemiology and prevention of other non-communicable diseases (gastrointestinal diseases)
Dr. Németh Katalin

12 Epidemiology and prevention of other non-communicable diseases (respiratory diseases)
Dr. Németh Katalin

13 Basics of nutrition. Nutritional habits, healthy diet I.
Dr. Szabó István
14 Basics of nutrition. Nutritional habits, healthy diet II.
Dr. Szabó István
15 Role of nutrition in the development of major chronic non-communicable diseases I.
Dr. Kiss István
16 Role of nutrition in the development of major chronic non-communicable diseases II.
Dr. Kiss István
17 Basics of infectious diseases.
Dr. Németh Katalin
18 Epidemiology of infectious diseases: global and European situation.
Dr. Németh Katalin
19 Main categories of infectious diseases and their characterization I.
Dr. Németh Katalin
20 Main categories of infectious diseases and their characterization II.
Dr. Németh Katalin
21 Vaccination.
Dr. Kiss István
22 Nosocomial infections.
Dr. Gyöngyi Zoltán
23 Water hygiene.
Dr. Szendi Katalin
24 Soil pollution.
Bérczi Bálint Dániel
25 Air hygiene.
Dr. Varga Csaba
26 Healthy environment at workplace. Health effects of radiation, noise, vibration, dusts, chemicals.
Dr. Tibold Antal
27 Occupational medicine in the dental praxis.
Dr. Tibold Antal
28 Occupational diseases. Ergonomics.
Dr. Tibold Antal

Practices

1 Basics of epidemiology I.
2 Basics of epidemiology II.
3 Screening.
4 Social risk factors.
5 Epidemiology of head and neck cancers.
6 Health promotion, health education.
7 Nutrition related diseases and their prevention. Dietary assessment.
8 Food borne infectious diseases, food poisoning and their prevention.
9 Practical aspects of infectious disease prevention.
10 Public health importance, epidemiology and prevention of oral diseases.
11 Epidemiology of sexually transmitted diseases and viral hepatitis.
12 Hospital hygiene. Sterilization, disinfection.
13 Major risk factors in disease development: smoking
14 Major risk factors in disease development: drug abuse and alcohol consumption.

Seminars

Exam topics/questions

Questions of choice Public Health

1. Leading causes of mortality and morbidity worldwide.
2. The definition of health and disease. Health determinants.
3. Levels of prevention.
4. Demography.
5. Epidemiology and prevention of cardiovascular diseases.
6. Epidemiology and prevention of cancer.
7. Epidemiology and prevention of other non-communicable diseases: diabetes.

8. Epidemiology and prevention of other non-communicable diseases: obesity.
9. Epidemiology and prevention of other non-communicable diseases: osteoporosis.
10. Epidemiology and prevention of other non-communicable diseases: gastrointestinal diseases.
11. Epidemiology and prevention of other non-communicable diseases: respiratory diseases.
12. Basics of nutrition.
13. Nutritional habits, healthy diet.
14. Role of nutrition in the development of major chronic non-communicable diseases.
15. Basics of infectious diseases.
16. Epidemiology of infectious diseases: global and European situation.
17. Main categories of infectious diseases and their characterization.
18. Vaccination.
19. Nosocomial infections.
20. Water hygiene.
21. Soil pollution.
22. Air hygiene.
23. Healthy environment at workplace.
24. Health effects of radiation, noise, vibration, dusts, chemicals.
25. Occupational medicine in the dental praxis.
26. Occupational diseases. Ergonomics.
27. Basics of epidemiology.
28. Social risk factors.
29. Health promotion, health education.
30. Epidemiology of head and neck cancers.
31. Nutrition related diseases and their prevention.
32. Food borne infectious diseases, food poisoning and their prevention.
33. Public health importance of oral diseases.
34. Epidemiology and prevention of caries.
35. Epidemiology of sexually transmitted diseases.
36. Epidemiology of viral hepatitis.
37. Hospital hygiene. Sterilization, disinfection.
38. Practical aspects of infectious disease prevention.
39. Major risk factors in disease development: smoking
40. Major risk factors in disease development: alcohol consumption.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Berényi Károly (BEKFABO.PTE), Dr. Gyöngyi Zoltán (GYZMAAO.PTE), Dr. Horváth-Sarródi Andrea (HOAF-ALO.PTE), Dr. Németh Katalin (NEKFABO.PTE), Dr. Szabó István (SZIGABO.PTE)

OSK-PR2-T PERIODONTOLOGY 2 - DISEASES OF THE ORAL MUCOSA

Course director: **DR. ÁGNES BÁN**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 20**

Prerequisites: **OSK-GT2-T completed + OSK-PD1-T completed + OSK-SZ2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Classification, diagnosis, etiology and pathogenesis of the diseases of the oral mucosa

Conditions for acceptance of the semester

According to the Code of Studies and Examinations, Annex 2., Section 1/A (6):

Who is absent from more than 15% of the practical courses or more than 15% of the lectures cannot be granted entry to examination.

Being late for more than 10 minutes from the practical courses or leaving it without the permission of the leader of the practice is considered as an absence.

According to the Code of Studies and Examinations, Annex 2., Section 4. (6):

The leader of the practice shall have the right to exclude a student from bedside practice (class) in the case of any unpreparedness endangering the health of the patient. Exclusion from the given practice shall qualify as absence without a certified excuse.

Mid-term exams

-

Making up for missed classes

No possibility

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  George Laskaris: Color Atlas of Oral Diseases

Lectures

1 Physical, chemical and iatrogenic lesions of the oral mucosa
Dr. Tóth Vilmos

2 Primary ulcers of oral mucosa.
Dr. Tóth Vilmos

3 Secondary ulcers of oral mucosa.
Dr. Tóth Vilmos

4 Premalignant lesions.
Dr. Tóth Vilmos

5 Viral and bacterial infections.
Dr. Tóth Vilmos

6 Lichen Oris
Dr. Tóth Vilmos

7 Fungal infections of the oral mucosa.
Dr. Tóth Vilmos

8 Oral symptoms of haematological diseases.
Dr. Tóth Vilmos

9 Non-surgical diseases of the salivary glands.
Dr. Tóth Vilmos

10 Oral symptoms of metabolic and neuroendocrin system diseases, diet habits and vitamin deficiencies.
Dr. Mandel Iván

11 Oral symptoms of cardiovascular diseases.
Dr. Tóth Vilmos
12 Diseases of the tongue and lips
Dr. Tóth Vilmos
13 Immunological diseases.
Dr. Tóth Vilmos
14 Oral symptoms of HIV infections and prevention of nosocomial infections.
Dr. Tóth Vilmos

Practices

1-28 Patient treatment

Seminars

Exam topics/questions

1. Herpetic gingivostomatitis.
2. Recurrent herpes. Herpes Zoster, Herpangina.
3. Clinical types of candida infections.
4. Treatment of candidosis.
5. Inflammatory diseases of the lip.
6. Developmental disorders of the lip. Quincke edema.
7. Angular cheilitis. Furuncle and Erysipelas.
8. Developmental disorders of the tongue. Geographic tongue.
9. Glossitis rhombica mediana. Glossopyrosis, glossodynia. Lingua pilosa nigra.
10. Oral symptoms of leukaemias, agranulocytois.
11. Oral symptoms of the diseases of the red the blood cell producing system.
12. Oral symptoms of vitamin deficiencies.
13. Oral symptoms of diseases of the neuroendocrine system.
14. Oral symptoms of coagulopathies.
15. The antibacterial effect of the saliva. Secretory IgA.
16. Erythema exsudativum multiforme.
17. Pemphigus, pemphigoid.
18. Mucosal lesions caused by chemical materials or drugs.
19. Oral aphtae.
20. Physical injuries of the oral mucosa.
21. Chemical injuries of the oral mucosa.
22. The clinical anatomy and histology of the salivary glands.
23. Anatomy of the tongue. Physiology of taste sensation.
24. The clinical anatomy and histology of the oral mucosa.
25. Leukoplakia, leukokeratosis nicotina palati.
26. Lichen oris.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Mandel Iván (MAIFABO.PTE), Dr. Tóth Vilmos (TOVLAAO.PTE)

OSK-SZ3-T ORAL SURGERY 3

Course director: **DR. JÓZSEF SZALMA**, associate professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 28** practices **+ 0** seminars = total of **42** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSK-GT2-T completed + OSK-PR2-T parallel + OSK-SZ2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim is to introduce the diagnostic and therapeutic of the complex dental, maxillofacial traumatology and oncology to the students.

Conditions for acceptance of the semester

Attendance on lectures and practices is compulsory. No make up for missed classes. Missing more than 20% will automatically reject semester acceptance [i.e. 3 or more missing on lectures, or 3 or more missing from practices (where one practice block is 90=2x45 minutes)] and the semester has to be repeated.

Mid-term exams

There are one written test based on lectures, usually on the 7th or 8th weeks.

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*

  Szabo Gy.: Oral and Maxillofacial Surgery, Semmelweis, 2001.

- *Literature developed by the Department*

  Lecture notes

- *Notes*

- *Recommended literature*

  Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998
  Stanley F. Malamed: Local Anesthesia,, Mosby 1990

Lectures

1 The general principles of maxillofacial trauma. Traumatic brain injury. Soft tissue injury, rhabies, tetanus and conservative management of maxillofacial fractures.
Dr. Szalma József

2 Diagnosis of mandibular fractures. Types of fractures
Dr. Olasz Lajos

3 Conservative and surgical therapy of mandibular fractures
Dr. Olasz Lajos

4 Complications of mandibular fractures
Dr. Olasz Lajos

5 Types of fractures of central and centrolateral midface and its therapy
Dr. Olasz Lajos

6 Types of fractures of lateral midface
Dr. Olasz Lajos

7 Treatment of combined fronto-basal-facial injuries
Dr. Olasz Lajos

8 Complications of midfacial fractures
Dr. Olasz Lajos

9 WRITTEN ASSIGNMENT
Dr. Olasz Lajos

10 Benign tumors of soft tissues
Dr. Olasz Lajos

11 Odontogenic tumors

Dr. Olasz Lajos
12 Benign tumors of jaws
Dr. Olasz Lajos
13 Precanceroses
Dr. Olasz Lajos
14 Discussion
Dr. Olasz Lajos

Practices

1-28 Patient treatment in the clinical practice

Seminars

Exam topics/questions

-

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Szalma József (SZJFACO.PTE), Dr. Vajta László Ferenc (VALMAAO.PTE)

OSK-SZE-T OPHTHALMOLOGY

Course director: **DR. LÁSZLÓ BALÁZS VARSÁNYI**, assistant professor
Department of Ophthalmology

2 credit ▪ **semester exam** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 14** practices **+ 0** seminars = total of **28** hours

Course headcount limitations (min.-max.): **1 – 30** *Prerequisites:* **OSP-PA2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The diagnostic tools and therapies of ophthalmic diseases will be discussed highlighting the diseases occurring frequently in the general- and dental practices and emergency ambulances. The basic diagnostic methods needed also in non-ophthalmical offices are treaned.

Conditions for acceptance of the semester

Maximum of 25 % absence allowed

Mid-term exams

Making up for missed classes

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Slides of the lectures are uploaded to the website of the Department.
- *Notes*
- *Recommended literature*

  G. Lang: Ophthalmology, Thieme

Lectures

1 Introduction. Anatomy of the globe. The eye, as optical system.
Dr. Biró Zsolt

2 Functional anatomy of the eye. Examination in Ophthalmology.
Diseases of the eyelids and the lacrimal apparatus
Dr. Varsányi László Balázs

3 Conjunctiva, cornea, sclera, the uveal tract. Intraocular inflammations.
Dr. Horváth Zoltánné (Dr. Szabó Ilona)

4 The lens. Cataract.
Dr. Biró Zsolt

5 The glaucoma. Classification, diagnosis, pathogenesis and treatments.
Dr. Varsányi László Balázs

6 The vitreous and the vitreoretinal diseases. Retinal detachment.
Dr. Szomorné Dr. Szijártó Zsuzsanna

7 Retinal vascular abnormalities. Systemic diseases in Ophthalmology.
Dr. Szomorné Dr. Szijártó Zsuzsanna

8 Retinal degernerations, AMD.
Dr. Varsányi László Balázs

9 Retinal dystrophies. Electrophysiology.
Dr. Varsányi László Balázs

10 Neuroophthalmology.
Dr. Varsányi László Balázs

11 Intraocular tumors. The orbit.
Dr. Horváth Zoltánné (Dr. Szabó Ilona)

12 Pediatric ophthalmology. Strabismus. Nystagmus.
Dr. Szapáryné Dr. Gaál Valéria

13 Ocular injuries. Evaluation of permanent impairments. Rehabilitation of the Blind.
Dr. Biró Zsolt

14 Differential diagnostics. Consultation.
Dr. Varsányi László Balázs

Practices

1 Taking the history. Testing of visual acuity and optical defects. Light and colour perception. The methods of morphological examination
2 Eyelids and lacrimal apparatus. Eversion of the upper eyelid. Examination of the lacrimal system. Irrigation of the nasolacrimal duct
3 Conjunctiva. Irrigation of the conjunctival sac. The application of drops and ointments into the conjunctival sac. Patching and bandage of the eye
4 Cornea. Sclera. Slit-lamp examination. Keratometry: the measurement of the refractive power of the cornea, keratoscopy. Examination of the preocular tear film. Corneal transplantation (video demonstration)
5 Uveal tract. Slit-lamp examination. Ultrasonography. Red eye and its differential diagnosis
6 Lens. Slit-lamp examination before and after cataract surgery. Cataract surgery: ICCE, ECCE, lensectomy, ultrasonic phakoemulsification (video demonstration)
7 Glaucoma (gonioscopy, ophthalmoscopy, visual field evaluation, measuring intraocular pressure). Treatment. Glaucoma surgery (video demonstration)
8 Vitreous, retinal detachment. Fundus examination. Vitrectomy. Detachment surgery (video demonstration)
9 Retina I. Fundus examination. Fluorescein angiography. Diabetic and hypertensive retinopathy
10 Retina II. Colour vision. Dark adaptation. Electrophysiology, fundus examination, genetic counselling
11 Visual pathway, pupil, orbit. Perimetry, CT, MRI. The differential diagnosis of blurred disc margin. Pharmacology of the iris and pupil
12 Intraocular tumours. The clinical picture, diagnosis, differential diagnosis of white pupil, ultrasonography (video demonstration)
13 Strabismus. Extraocular muscles, testing for strabismus. Amblyopia treatment (video demonstration)
14 Ocular injuries. Low vision aids (video demonstration)

Seminars

Exam topics/questions

1. A) Visual acuity - terminology, examinations
   B) Cataract - treatment options
2. A) Colour vision - investigation methods
   B) Uveitis. Sympathetic ophthalmia
3. A) Visual field - determination, how to test?
   B) Diabetic retinophathy
4. A) Dacryocystitis neonatorum
   B) Orbital diseases
5. A) Refractive errors of the eye
   B) Thyroid eye disease
6. A) Anatomy of iris, papillary reactions, drug acting on pupil
   B) Chemical injuries of the eye
7. A) Aqueous flow and its disorders
   B) Mechanical injuries of the eye surface, radiation injuries
8. A) Leading causes of blindness
   B) Perforating injuries of the eye
9. A) Mechanism of tear production, drainage and its examination methods
   B) Strabismus concomitans and amblyopia
10. A) Diagnosis of primary glaucoma
    B) Diseases of lacrimal system
11. A) Contusion injuries of eye
    B) Retinal vascular disorders
12. A) Causes of sudden visual loss
    B) Intraocular tumors
13. A) Malpositions of eyelids
    B) Types of glaucoma and their significance
14. A) Inflammation and tumours of eyelids
    B) Differential diagnosis of the red eye
15. A) Epithelial and stromal keratitis
    B) Hypertensive retinopathy
16. A) Acute conjunctivitis
    B) Retinal detachment
17. A) Chronic conjunctivitis, malformations of conjuctiva
    B) Iritis and iridocyclytis, dental origin as a trigger, its role

18. A) Injuries of the eye globe and adnexa - their primary care
    B) Eye diseases with viral origin
19. A) Eye manifestations of systemic disorders
    B) Diseases of vitreous
20. A) Disorders of the nervus and tractus opticus
    B) Indications for removal of the bulbus oculi
21. A) Symptoms affecting eye of paresis nervus facialis
    B) Symptoms of corneal foreign body, techniques of foreign body removal
22. A) Innervation disorders of trigeminal nerve, its importance on the whole eye
    B) What sort of eye diseases has to be diagnosed by a dentist?

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Horváth Zoltánné (Dr. Szabó Ilona) (HOZTAD0.PTE)

OSK-SZN-T OBSTETRICS AND GYNAECOLOGY

Course director: **DR. ISTVÁN DROZGYIK**, associate professor
Department of Obstetrics and Gynaecology

1 credit ▪ **midsemester grade** ▪ **Clinical subject** ▪ **autumn semester** ▪ recommended semester: **9**

Number of hours/semester: **14** lectures **+ 0** practices **+ 0** seminars = total of **14** hours

Course headcount limitations (min.-max.): **5 – 20** *Prerequisites:* **OSK-SZ2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The goal of this course is to give a basic knowledge and also a general review of the today's obstetrics and gynecology, in which the physiological aspects and the most important pathological conditions as well are discussed.

Conditions for acceptance of the semester

Mid-term exams

Making up for missed classes

Absence not more than 20 % is accepted.

Reading material

- *Obligatory literature*
- *Literature developed by the Department*

  Lecturers' handout.
- *Notes*
- *Recommended literature*

Lectures

1 Physiology of pregnancy. Maternal diseases and pregnancy
Dr. Csermely Tamás
2 Ultrasound examinations during pregnancy; Prenatal genetics
Dr. Vizer Miklós
3 Pregnancy pathology I
Dr. Szabó István
4 Pregnancy pathology II
Dr. Tamás Péter
5 Twin gestation. Preterm delivery
Dr. Szabó István
6 Normal and pathological deliveries
Dr. Gőcze Péter
7 Operative delivery
Dr. Tamás Péter
8 Puerperium
Dr. Tamás Péter
9 Neonatology
Dr. Ertl Tibor
10 Physiology of menstrual cycle. Bleeding abnormalities
Dr. Csermely Tamás
11 Gynecological infections
Dr. Tamás Péter
12 Endometriosis. Gynecological operations
Dr. Bódis József
13 Menopause
Dr. Gőcze Péter
14 Gynecological malignancies
Dr. Gőcze Péter

Practices

Seminars

Exam topics/questions

Written exam, evaluation is according to lecturers' handout.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Bódis József (BOJHAAE.PTE), Dr. Csermely Tamás (CSTGABO.PTE), Dr. Ertl Tibor (ERTMAAO.PTE), Dr. Gőcze Péter (GOPMAAO.PTE), Dr. Kovács Kálmán András (KOKFAFO.PTE), Dr. Tamás Péter (TAPMAAO.PTE), Dr. Vizer Miklós (VIMRAAO.PTE)

OSK-FL5-T PROSTHODONTICS 5

Course director: **DR. MÁRTA MÁRIA RADNAI**, professor
Department of Dentistry, Oral and Maxillofacial Surgery

6 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **10**

Number of hours/semester: **12** lectures **+ 48** practices **+ 24** seminars = total of **84** hours

Course headcount limitations (min.-max.): **1 – 20** *Prerequisites:* **OSK-FL4-T completed + OSK-PR2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Lectures: To teach the basic knowledge of dental implantology, that provides a foundation for further studies to get practical knowledge in implantology. Teach the terms, scientific background, guidelines, methods of dental implantology. Anatomical aspects, indication, contraindication, surgical and prosthetic aspects of planning. Steps of implant-prosthetic treatment. Complications and their solution.

The main aim of the practices is to inform the students how we can adapt the general principles of clinical prosthodontics individual cases. On the base of previous knowledge students should be able to evaluate the modifying and influential factors in prosthodontic treatment planning. How we can collect anamnestic data, how we can use diagnostic protocols in order to support or decision in treatment plan. Participants should collect basic practical ability to perform the essential treatment therapy in pre-edentulous patients.

Conditions for acceptance of the semester

The students must complete the pensum which is handled during the first week of the semester.

The theoretical knowledge of the student is evaluated by the practice leader in orla or written form. If the students' theoretical knowledge not acceptable the student can not participate in the practice.

Mid-term exams

One written test in fixed and removable prosthodontics.

A failed mark awarded for a compulsory written test, may be improved only one time during the semester, time and place of the second test is determined by the lecturer. If a student doesn't show up for the test, the test is considered as failed. If any test, marked as failed, isn't corrected during the semester, the semester of the student is considered failed, and the semester has to be repeated. There will be one chance to retake the written test.

Making up for missed classes

No possibility

Reading material

- *Obligatory literature*

  Myron Nevins, James T. Mellonig: Implant Therapy
  Hubertus Spiekermann: Implantology
  Misch CE: Dental Implant Prosthetics

- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

Lectures

1 Materials and properties of dental implants. The components of an implant system.
Dr. Radnai Márta Mária
2 Implant-prosthetic treatment planning: alternative treatment plans.
Dr. Radnai Márta Mária
3 X-ray diagnostics. Implant planning with CT and guide systems
Dr. Marada Gyula
4 Abutments. Occlusion, articulation.
Dr. Radnai Márta Mária
5 Types of implant supported prostheses: fixed restoration
Dr. Radnai Márta Mária
6 Types of implant supported prostheses: fixed restoration
Dr. Radnai Márta Mária
7 Types of implant supported prostheses: removable restoration.
Dr. Radnai Márta Mária

8 Implant-prosthetic treatment: clinical stages of prosthetic treatment, impression, trial, insertion
Dr. Radnai Márta Mária

9 Dental technical aspects of implantology.
Dr. Marada Gyula

10 Temporary prosthesis
Dr. Radnai Márta Mária

11 Maintenance, oral hygiene, recall. Prosthetic problems and their solutions
Dr. Radnai Márta Mária

12 Periimplantitis and its treatment
Dr. Radnai Márta Mária

Practices

1-48 Making fix and removal prosthodontics depending on patient availability.

Seminars

1-24 Week 1-24 Evaluation of diagnostic data, treatment planning.

Exam topics/questions

1. A. Consequences of tooth loss. Legal aspects of prosthetic treatment
   B. Definition, classification, indication and contraindication of dowel retained restorations (prefabricated and custom made posts, post and core).
   C. Preprosthetic treatment. (The sequence of treatment planning.)
   D. Corrosion resistance of dental alloys, chemical and electrochemical corrosion.
   E. Types of implant-abutments and their features.

2. A. Anatomy of the mandible.
   B. Describe the features of the partial metal crowns, indications, and contraindications.
   C. The stages of making a precision attachment retained removable partial denture.
   D. Types of dental gypsum products, properties and application fields in dentistry.
   E. Conditions of making implant supported restoration.

3. A. Anatomy of the maxilla.
   B. Describe the cast post and core. Compare the prefabricated posts and cast post and core!
   C. The stages of preparing a telescopic crown retained overdenture.
   D. Thermoplastic impression materials and their critical evaluation.
   E. X-ray diagnostic procedures before implant surgery.

4. A. The ligaments of the temporo-mandibular joint, their role and importance in the function of the joint.
   B. Definition of bridges, classification, indications, contraindications. Prosthetic value of the teeth.
   C. Stages of preparing a telescopic crown retained removable partial denture with a metal framework.
   D. Classification of dental restorative materials.
   E. Treatment planning in implant prosthetic treatment.

5. A. Descriptive anatomy of the temporo-mandibular joint. Movements of the jaw.
   B. Temporary removable partial denture.
   C. Materials, armamentarium and steps of crown and bridge cementation. Inserting combined (fixed/removable) restorations.
   D. Dental gold alloys, characteristics and dental application.
   E. Structure of an implant supported restoration.

6. A. Describe the characteristics, topography, and prosthetic importance of the attached, the movable and the displaceable mucosa.
   B. Prosthetic rehabilitation of face defects (obturator, epithesis).
   C. Stages of preparing cast bridges (clinical and laboratory steps).
   D. Critical evaluation and properties of die materials.
   E. Types of dental implants. Possibilities for surface modification.

7. A. Clinical anatomy of the alveolar ridge.
   B. Classification, indications and contraindications of crowns.
   C. Fitting of upper and lower complete denture, reocclusion, remontage.
   D. Types of elastomer (Silicone) impression materials and methods for their application.

E. Osseointegration.

8. A. Clinical anatomy and prosthetic importance of the retromolar pad.
   B. Definition and indication of stress-breakers, indirect retainers.
   C. Stages of preparation of a clasp retained removable partial denture.
   D. Classification of impression materials.
   E. Steps of making an implant supported single crown.

9. A. Anatomy of the soft palate. The possibilities of the post-dam (posterior seal) of the complete upper denture.
   B. Factors influencing the long term success of bridges. Special bridges. Removal of crowns and bridges.
   C. Stages and armamentarium of tooth preparation for full ceramic crown.
   D. Dental non-precious alloys, critical evaluation of their properties, indications.
   E. Steps of making an implant supported removable partial denture with bar attachment.

10. A. Anatomy and prosthetic importance of the musculus geniohyoideus and genioglossus. Possible clinical and prosthetic usage of the sublingual area.
    B. Methods, aims and importance of protection of prepared tooth.
    C. Stages of preparing an acrylic removable partial denture.
    D. What does the injection molding technology mean?
    E. Physical and chemical properties of titanium, its behavior in the living organism.

11. A. Anatomy and prosthetic importance of the buccinator muscle. Anatomy and prosthetic importance of the masseter muscle. Prosthetic importance of the mimical muscles.
    B. Telescopic crown/double crown retained removable partial denture; definition, indication, advantages and disadvantages.
    C. Steps and armamentarium of tooth preparation for partial (3/4 and 4/5) metal crown.
    D. Main properties of silver-palladium alloy, indications of application.
    E. Patient's care after finishing implant-prosthetic treatment. Recall.

12. A. Clinical anatomy and prosthetic importance of the accessory mandibular recess.
    B. Cast clasps, and Ney clasps (form, indications, advantages and disadvantages).
    C. Preparing a post and core (direct and indirect methods)
    D. Properties of dental porcelains. Compare the properties of porcelain-fused-to-metal and all ceramic restorations.
    E. Contraindications of implant placement.

13. A. Clinical anatomy and prosthetic importance of the Fish pocket.
    B. Milling technology, precision attachments, indications, contraindications, advantages and disadvantages.
    C. Methods for facing and veneering of crowns/bridges: description, advantages, disadvantages (acrylic, composite, porcelain).
    D. Drills, cutting and polishing instruments and their application fields.
    E. Potential complications of the implant surgery process.

14. A. Anatomy and prosthetic importance of the orbicularis oris muscle
    B. Indication and prosthetic methods of increasing the occlusal vertical dimension.
    C. Preparation of upper complete denture ? traditional method.
    D. Types, properties and application of elastic impression materials.
    E. Types of implant supported restorations in case of total edentulous jaws.

15. A. Definition of mucosal resiliency, size of the resiliency and its prosthetic importance. Explain the reasons for the sinking of the denture base!
    B. Static, mechanic, biologic and esthetic requirements of bridges.
    C. Indication and preparation of hybrid prosthesis/overdenture.
    D. Different types of impression taking processes.
    E. Surface characteristics of dental implants.

16. A. Groups of the masticatory muscles and the role of each muscle in the function of the masticatory organ.
    B. Armamentarium and materials of functional impressions.
    C. Registration of occlusal vertical dimension and centric relation in case of complete upper and lower edentulousness, and in case of lower edentulous ridge (patient has his upper teeth).
    D. Methods for making precision/sectioned casts and duplication cast.

E. Diagnostic procedures before making an implant supported restoration.

17. A. Role of the myofunctional factors in the retention of the lower complete denture. Which muscles are perpendicular to the base edge of the lower complete denture? Which muscles support and which muscles inhibit the stability of the total lower denture?
B. Porcelain laminates, indication, contraindication, preparation.
C. Immediate dentures: definition, indication, stages of preparation.
D. Definition and types of alloys. What is the relationship between properties of the components of the alloys and the properties of the alloys?
E. Methods for making an implant supported restoration in case of bounded saddle and distally edentulous jaw.

18. A. Conservative therapy of the temporo-mandibular joint dysfunction.
B. Borders of upper and lower complete denture base.
C. Steps of precision and pick-up impressions.
D. Types of dental polymers. Application fields of PMMA based acrylic in dentistry. Critical evaluation of its properties.
E. Cause, symptoms, diagnosis and treatment of periimplantitis.

19. A. Registration of occlusal vertical dimension and centric relation in case of partial edenulousness.
B. Functional and esthetic aspects of setting up the teeth in complete denture.
C. Preparation of metal ceramic crowns. Gingival mask.
D. Types and main properties of metals used for making dental alloys. Which types of metals or alloys are not allowed to be used for the purpose of dental restorations?
E. Legal aspects of making implant supported restorations.

20. A. Anatomy and prosthetic importance of the mylohyoideal muscle.
B. Definition and types of the retainers for a removable partial denture.
C. Armamentarium and stages of tooth preparation for full veneer crown (cast metal).
D. Surface processing in the dental technical laboratory.
E. Anatomical features which are relevant in surgical aspect of implantology.

21. A. What are the etiologic factors and the symptoms of the temporo-mandibular dysfunction syndrome?
B. What are the features and functions of the base plate and the saddle of the removable partial denture?
C. Preprosthetic surgery, indication, methods.
D. Investment and casting process in dentistry.
E. Aesthetic aspects of making an implant supported restoration. Occlusion and articulation relating implant prosthetic treatment.

22. A. Definition of the condylar pathway? Which are the condylar pathways?
B. Which are the retentive factors of a complete denture?
C. Preparation of complete denture with acrylic base-plate method, advantages and disadvantages.
D. Finishing of removable prosthesis (investment, processing, polishing).
E. Making of an implant supported prosthesis with ball attachments.

23. A. Definition of the prosthetic Spee-curve? It’s importance in setting up the teeth for complete denture.
B. Characteristics of cast metal base plate and benefits against the acrylic baseplate. Criteria of metal base plate design, types of connector shape.
C. Steps of tooth preparation for full veneer crown, general rules, types and places of the preparation margins.
D. Goals, materials, armamentarium and methods of making temporary crowns/bridges.
E. Making of an implant supported prosthesis with telescopic attachments.

24. A. What is the difference between occlusal plane and occlusal surface? Importance of the occlusal plane determination.
B. Definition of the occludor and articulator. Importance of their appliance.
C. What and how do we check during the wax try-in procedure? (Christensen phenomenon, explanation, practical benefits).
D. Methods to join metals together
E. Importance of the 3 dimensional relations of the maxilla and mandible in planning an implant supported restoration.

25. A. Describe the anatomical characteristics of the clinical crown of the incisors, canines, premolars and molars, which are of prosthetic importance.
    B. Determine and define the next terms: impression, anatomical impression, functional impression, cast, study cast, master cast, anatomical cast, functional cast, precision impression, precision cast, primary rotary axis, secondary rotary axis, pick-up impression.
    C. Anamnesis, examination and planning in case of bounded edentulous space.
    D. Allergy during prosthetic treatment, and its therapy.
    E. Armamentarium and steps of implant surgery.

26. A. Typical disorders of the temporomandibular joint.
    B. Prosthetic classification of edentulousness.
    C. Definition of ?crown?! The possible negative side effects of tooth preparation.
    D. Source of errors during making crowns and bridges.
    E. What is the goal of using a surgical template during implant prosthetic treatment?

27. A. Definition of the clinical anatomy. Quote one or more examples!
    B. What are the basic mandible movements? Which points do we examine during the analysis of the mandible movements according to the classical gnathologic studies?
    C. Tooth shade selection.
    D. Dental waxes, characteristics, areas of application.
    E. Methods of impression taking for an implant supported prostheses.

28. A. Definition of the tooth guidance. Principles of occlusal and articulation in fixed, partial and complete dentures.
    B. Definition of the symphysis pathway. Which are the symphysis pathways?
    C. Periodontal and oral hygienic aspects in prosthodontics.
    D. Methods of impression taking.
    E. Various implant?abutment connection types.

29. A. Clinical diagnostics of temporomandibular dysfunctions.
    B. Face-bow registration, model mounting into an individual value articulator.
    C. Objects of the regular check-ups, organizing, steps of the recall meeting.
    D. Definition of ‘standards? and its importance in dentistry.
    E. Definition of the dental implant. Shape and parts of the dental implant.

30. A. Bite forms, characteristics of the normal occlusion, anatomy of the occlusal surface of the teeth, types of tooth wear.
    B. Imaging methods in the diagnosis of temporomandibular disorders.
    C. Repairing of the dentures, steps of relining partial and complete denture.
    D. Full ceramic systems, ceramic materials and processing methods.
    E. Indications of implant supported restorations.

31. A. Importance of phonetics in prosthetic treatment
    B. Using Intraoral Gothic Arch Tracing during bite registration
    C. What is the advantage and disadvantage of saddle close and saddle far support in partial dentures
    D. What is a surveyor, how do you use it? What is the milling technology?
    E. Temporary restorations in implant dentistry. Immediate loading.

32. A. Mastication and its physiology
    B. Mistakes during impression taking, how can you avoid them?
    C. Tooth preparation for prefabricated posts. Fixation process of prefabricated posts.
    D. Splint therapy of temporomandibular dysfunction.
    E. Platform switching concept in dental implantology.

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Benke Beáta (BEBFADO.PTE), Dr. Marada Gyula (MAGFABO.PTE), Dr. Muzsek Zsófia (MUZFACO.PTE), Dr. Rajnics Zsolt (RAZNABO.PTE)

OSK-GR3-T PAEDIATRIC DENTISTRY 3

Course director: **DR. ILDIKÓ BALÁS-SZÁNTÓ**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

2 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **10**

Number of hours/semester: **12** lectures **+ 24** practices **+ 0** seminars = total of **36** hours

Course headcount limitations (min.-max.): **1 – 25** *Prerequisites:* **OSK-GF2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

This semester will cover a summary of pediatric dentistry including factors such as emergency care, hospital care, complex therapies and general medical conditions that may affect pediatric dental care.

Conditions for acceptance of the semester

Maximum of 15 % absence allowed

Mid-term exams

The student's capabilities will be measured by the end of this semester. The teachers evaluate continously at the practices, by the exam the student (next to the exam question) get a case report, which has to be analysed.

Making up for missed classes

None

Reading material

- *Obligatory literature*

  Monty Duggal, Angus Cameron, Jack Toumba: Paediatric Dentistry at a Glance, lecture notes, Wiley-Blackwell, October 2012
  Angus C. Cameron and Richard P. Widmer: Handbook of Pediatric Dentistry

- *Literature developed by the Department*

  Lecture notes

- *Notes*

  None

- *Recommended literature*

  Digital method and content development of the hungarian higher education in dentistry in Hungarian, German and English (http://www.tankonyvtar.hu/en/tartalom/tamop412A/2011-0095_fogaszat_angol/adatok.html)

Lectures

1 Integrated dental prevention I.
Dr. Balásné Dr. Szántó Ildikó
2 Integrated Pediatric dentistry I.
Dr. Balásné Dr. Szántó Ildikó
3 Regenerative endodontics
Dr. Sándor Balázs Attila
4 Traumatologic considerations of pediatric dentistry. Case report.
Dr. Sándor Balázs Attila
5 Dental fear, pediatric psychology.
Dr. Tényi Tamás
6 Integrated Pediatric Dentistry II.
Dr. Balásné Dr. Szántó Ildikó
7 Emergency care in pediatric dentistry.
Dr. Kövesi Tamás
8 Interpretations of laboratory findings in pediatrics.
Dr. Fónai Fruzsina
9 Integrated prevention II.
Dr. Sándor Balázs Attila
10 Most common oropharyngeal diseases in children.
Dr. Ráth Gábor

11 Patient management in case of oral complain
Dr. Balásné Dr. Szántó Ildikó
12 Consultation
Dr. Balásné Dr. Szántó Ildikó

Practices

1-24 Pediatric dental care. Regular dental screening.

Seminars

Exam topics/questions

1. Dental examination of healthy children. Regular screening
   Caries epidemiological survey
2. Dental examination of disabled children. Panic disorder
   Preventive care for handicapped patients
3. Diagnostic imaging
   Caries risk assessment. Caries activity tests
4. Emergency trauma care in pediatric dentistry
   Fissure sealing
5. Diagnostic procedures and emergency care in inflammatory cases in pediatric dentistry
   Dietary guidelines in caries prevention
6. The diagnostics and treatment of exophyt lesions of the oral mucosa
   Methods of fluoridation
7. Treatment of periodontal diseases in childhood
   Sugar substitutes, sweeteners
8. Immunizations schedule. Tetanus vaccination
   Dental education program in 2-5 years old age group
9. Oral manifestations of infectious diseases of childhood and their treatment
   Dental education program in 6-12 years old age group
10. Oral manifestations of systemic diseases and their treatment in childhood
    Dental education program in 12-18 years old age group
11. Local anesthesia in childhood
    Thee cleaning of approximal surfaces and their tools.
12. Sedation, general anesthesia
    Trauma and surgical prevention
13. Systemic analgesia
    Preventive care during pregnancy
14. Antibiotic therapy in pediatric dentistry
    Mechanisms of action of fluoride and fluoride toxicity
15. Types of intellectual disabilities. Dental care for these patients.
    Treatment of incipient caries
16. Endodontic treatment of primary teeth
    Preventive care for orthodontic patients
17. Treatment of primary tooth caries
    Role of sugars in the formation of caries
18. Caries treatment of freshly erupted teeth. Apexogenesis
    Infection control, surface disinfection. Hygiene standards in the dental practice
19. Apexification
    Tools of scaling. Indications, contraindications
20. Treatment of periostitis
    Splinting
21. Treatment of primary tooth fractures
    The use of calcium-phosphate containing caries preventive materials
22. Treatment of fracture in freshly erupted teeth
    Structural tooth developmental disorders
23. Treatment of primary tooth luxations
    Disorders of tooth eruption
24. Treatment of permanent tooth luxations
    Disorders in the size and morphology of the teeth

25. Prosthodontic treatment in childhood
    Antibiotic profilaxis
26. Diagnosis and treatment of white and red oral mucosal lesions
    Dental materials used in childhood
27. Differential diagnosis and treatment of oral mucosal ulcers
    Polishing

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Balásné Dr. Szántó Ildikó (SZINAJP.PTE), Dr. Sándor Balázs Attila (SABFAA.T.JPTE)

OSK-KZ2-T OPERATIVE DENTISTRY - OPERATIVE DENTISTRY 2

Course director: **DR. EDINA LEMPEL**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

4 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **10**

Number of hours/semester: **12** lectures **+ 48** practices **+ 0** seminars = total of **60** hours

Course headcount limitations (min.-max.): **1 – 20**

Prerequisites: **OSK-FL4-T completed + OSK-KF1-T completed + OSK-PR2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Principles of caries and endodontic diagnosis and treatment strategies. Problem solving in difficult cases.

Conditions for acceptance of the semester

Attending the classes, according to the rules of the Code of Studies and Examinations (Max 15% absence is accepted from the lectures and from the practices). 10 minutes late is equal with an absence.

10 minutes late from the practice is considered as an absence.

In case of lack of basic knowledge/preparedness the supervisor can refuse the participation and treatment of the patient.

Mid-term exams

Further requirement to collect minimum 9 scores from the treatments.

Scores of the treatments:

Esthetic filling: Class I., V.: 0,75

Esthetic filling: Class II., III., IV.: 1,25

Trepanation, enlargement of front teeth: 1,00

Trepanation, enlargement of premolar teeth: 1,25

Trepanation, enlargement of front teeth: 2,00

Root canal filling of front teeth: 0,50

Root canal filling of premolar teeth: 0,75

Root canal filling of molar teeth: 1,00

Inlay/onlay: 3,00

Status: 0,30

Scaling/arch: 0,30

During the semester 2 tests will be written (accepted result min. 60%). If none of the tests reaches the 60% the semester is not accepted. If one of the tests is less than 61%, there is possibility to improve it during the semester.

Inadequate preparedness on the practice, improper treatment of the patient may lead to denial of the semester.

Making up for missed classes

None

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  John R. Sturdevant: Art and Science of Operative Dentistry
  Stephen Cohen: Pathways of the Pulp
  Ole Fejerskov: Dental Caries

Lectures

1 Attrition, abrasion, erosion
Dr. Lempel Edina
2 Bleeching.
Dr. Lempel Edina
3 Cementation of full ceramic restorations
Dr. Lempel Edina
4 Features and indications of fiber-reinforced posts
Dr. Lempel Edina
5 Cementation of fiber-reinforced posts
Dr. Lempel Edina
6 Diagnosis and therapy of injured teeth.
Dr. Lempel Edina
7 Endodontic retreatment.
Dr. Lempel Edina
8 Microbiology of endodontic interactions; possibilities of effective antimicrobial treatments
Dr. Tigyi Zoltán
9 Regenerative endodontics.
Dr. Lempel Edina
10 Medication in operative dentistry.
Dr. Lempel Edina
11 Difficulty of establishment of diagnosis and treatment planning in operative dentistry - interactive lecture
Dr. Lempel Edina
12 Problem solving in endodontics. Consultation.
Dr. Lempel Edina

Practices

1-48 Conservative dental treatment of recalled patients.

Seminars

Exam topics/questions

1. Instruments for cavity preparing
2. Class I and V cavity preparing for plastic filling
3. Class II cavity preparing for plastic filling
4. Class III and IV cavity preparing for plastic filling
5. Metallic restorative materials
6. Composites
7. Cements, guttapercha
8. Amalgam filling
9. Indication of composite filling
10. Control of trauma, moisture and pain
11. Cavity preparing for metal inlay
12. Direct and indirect methods for metal inlay fabrication
13. Fissure sealing. Provisional fillings.
14. Direct and indirect pulp capping. Basing and lining of cavities
15. Anatomy of the pulp
16. Clinical and radiological diagnosis of the pulp diseases
17. Diagnosis of periodontitis, periostitis, odontogen osteomyelits. Dental focus
18. Root canal preparation for root canal filling
19. Instruments for root canal preparing and filling
20. Disinfection, irrigation of the root canal. Materials for root canal filling
21. Vitalexstirpation, vitalamputation, treatment of gangraena pulpae
22. Root canal filling techniques
23. Indications of endodontic surgery
24. Bleeching
25. Endodontic revisions
26. Regenerative endodontics
27. Adhesive bonding agents

28. Cementation of full ceramic restorations
29. Adhesive fiber reinforced intrapulpal posts
30. Histopathology of enamel- and dentin caries
31. Development, pathology and diagnosis of caries
32. Microbiology of caries. Biochemistry of the plaque
33. Influencing factors of caries; Protective mechanisms of the host
34. Preeruptive profilaxis
35. Posteruptive profilaxis
36. Cariostatic mechanisms of fluorides; dosage of fluorides

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Lempel Edina (LEEFABO.PTE), Dr. Schreindorfer Károly (SCKPABO.PTE)

OSK-PR3-T PERIODONTOLOGY 3 - PERIODONTOLOGY

Course director: **DR. ÁGNES BÁN**, assistant professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **10**

Number of hours/semester: **12** lectures **+ 36** practices **+ 0** seminars = total of **48** hours

Course headcount limitations (min.-max.): **1 – 20**

Prerequisites: **OSK-FL4-T completed + OSK-KF1-T completed + OSK-PR2-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

Periodontal surgery. Treatment planning in the non-surgical and surgical phase of periodontal therapy.

Conditions for acceptance of the semester

According to the Code of Studies and Examinations, Annex 2., Section 1/A (6):

Who is absent from more than 15% of the practical courses or more than 15% of the lectures cannot be granted entry to examination.

Being late for more than 10 minutes from the practical courses or leaving it without the permission of the leader of the practice is considered as an absence.

According to the Code of Studies and Examinations, Annex 2., Section 4. (6):

The leader of the practice shall have the right to exclude a student from bedside practice (class) in the case of any unpreparedness endangering the health of the patient. Exclusion from the given practice shall qualify as absence without a certified excuse.

Mid-term exams

-

Making up for missed classes

No possibility

Reading material

- *Obligatory literature*
- *Literature developed by the Department*
- *Notes*
- *Recommended literature*

  Jan Lindhe: Clinical Periodontology and Implant Dentistry
  George Laskaris: Color atlas of Oral Diseases

Lectures

1 Periodontal surgery I (ENAP, gingivectomy, gingivoplasty, Neumann-Widmann flap).
Dr. Tóth Vilmos

2 Periodontal surgery II (Mucogingival surgery, free gingival grafts).
Dr. Tóth Vilmos

3 Periodontal surgery III (Regenerative surgery, GTR techniques, bone grafting materials).
Dr. Tóth Vilmos

4 Introduction to clinical implantology (Types of the dental implants, theories of osseointegration).
Dr. Tóth Vilmos

5 Introduction to clinical implantology (treatment planning).
Dr. Tóth Vilmos

6 High risk patients I.
Dr. Tóth Vilmos

7 High risk patients II.
Dr. Tóth Vilmos

8 Teeth with furcation involvement.
Dr. Tóth Vilmos

9 Periodontal supportive therapy.
Dr. Tóth Vilmos

10 Role of antibiotics in periodontology.
Dr. Tóth Vilmos

11 The most frequently used drugs in periodontology.
Dr. Tóth Vilmos
12 Seminar.
Dr. Tóth Vilmos

Practices

1-36 Patient treatment

Seminars

Exam topics/questions

1. a. Structure and function of the gingiva and periodontal ligament.
   b. Gingivostomatitis Herpetica.
2. a. Structure and function of the cementum and the alveolar bone.
   b. Herpes recidivans. Herpes Zoster, Herpangina.
3. a. Formation of dental plaque.
   b. Clinical types of candidosis.
4. a. Calculus.
   b. Treatment of candidosis.
5. a. Acquired pellicle, debris, materia alba.
   b. Inflammatory diseases of the lips.
6. a. The role of bacteria in the etiology of the periodontal inflammation.
   b. Developmental disorders of the lips. Quincke oedema.
7. a. Local factors with natural origin in the etiology of periodontal diseases
   b. Angular cheilitis. Furuncle and Erysipelas.
8. a. Local factors with iatrogenic origin in the etiology of periodontal diseases
   b. Developmental disorders of the tongue. Lingua geographica.
9. a. The role of trauma from occlusion in the etiology of periodontal diseases.
   b. Glossitis mediana rhomboica. Glossopyrosis, glossodynia. Lingua pilosa nigra.
10. a. Pathomechanism and histology of periodontal inflammation.
    b. Oral symptoms of leukaemias, agranulocytois.
11. a. Plaque induced gingivitis, symptoms, therapy (except ANUG)
    b. Oral symptoms of the diseases of the red blood cell producing system.
12. a. Gingivitis ulcerosa. (ANUG).
    b. Oral symptoms of vitamin deficiencies.
13. a. Chronic periodontitis.
    b. Oral symptoms of diseases of the neuroendocrine system.
14. a. Aggressive periodontitis.
    b. Oral symptoms of coagulopathies.
15. a. Periodontal abscess.
    b. The antibacterial effect of the saliva. Secretory IgA.
16. a. Periodontal examination, diagnosis, treatment plan.
    b. Erythema exsudativum multiforme.
17. a. Aim of motivation and instruction in oral health.
    b. Pemphigus, pemphigoid.
18. a. Toothbrushing.
    b. Mucosal injuries caused by chemical materials or drugs.
19. a. Interdental cleaning.
    b. Aphtosis recidivans.
20. a. Scaling and polishing.
    b. Physical injuries of the oral mucosa.
21. a. Gingivectomy, postoperative advices, complications.
    b. Chemical injuries of the oral mucosa.
22. a. Flap surgery. Mucogingival surgery.
    b. The clinical anatomy and histology of the salivary glands.
23. a. Correction of the occlusion, splinting.
    b. Anatomy of the tongue. Taste sensation.
24. a. Epidemiology of periodontal diseases, periodontal indices
    b. The clinical anatomy and histology of the oral mucosa.

25. a. Prevention of periodontal diseases.
    b. Leukoplakia, leukokeratosis nicotina palati.
26. a. Treatment of periodontal pockets with closed curettage.
    b. Lichen oris

Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

Participants

Dr. Mandel Iván (MAIFABO.PTE), Dr. Tóth Vilmos (TOVLAAO.PTE)

OSK-SS4-T ORAL SURGERY 4

Course director: **DR. JÓZSEF SZALMA**, associate professor
Department of Dentistry, Oral and Maxillofacial Surgery

3 credit ▪ **final exam** ▪ **Clinical subject** ▪ **spring semester** ▪ recommended semester: **10**

Number of hours/semester: **12** lectures **+ 36** practices **+ 0** seminars = total of **48** hours

Course headcount limitations (min.-max.): **1 – 30**

Prerequisites: **OSK-FUL-T completed + OSK-SZ3-T completed + OSK-SZE-T completed**

The subject can only be registered in case of a PASSED and valid health aptitude test!

Topic

The aim is to introduce malignant tumor diagnosis and treatments, temporomandibular disorders and bone disorders to the students.

Conditions for acceptance of the semester

Attendance on lectures and practices is obligatory. No make up for missed classes. Missing more than 20% will automatically reject semester acceptance [i.e. 3 or more missing on lectures, or 3 or more missing from practices (where one practice block is 135=3x45 minutes)] and the semester has to be repeated.

Mid-term exams

There are no written test during the semester, but students may perform oral surgical treatments in patients only, when they are up to date regarding current patient's anamnesis and treatment plan.

Making up for missed classes

No possibility.

Reading material

- *Obligatory literature*

  Szabo Gy.: Oral and Maxillofacial Surgery, Semmelweis, 2001.

- *Literature developed by the Department*

  Lecture notes

- *Notes*

- *Recommended literature*

  Stanley F. Malamed: Local Anesthesia, Mosby 1990
  Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998

Lectures

1 Diagnosis of malignant tumors of the maxillofacial region
Dr. Olasz Lajos
2 Malignant soft tissue tumors of epithelial origin (carcinoma)
Dr. Olasz Lajos
3 Other malignant soft tissue tumors
Dr. Olasz Lajos
4 Malignant bone tumors of jaws
Dr. Olasz Lajos
5 Salivary gland tumors and treatments
Dr. Olasz Lajos
6 Clinical and histological grading (TNM) of malignant tumors
Dr. Olasz Lajos
7 Surgical treatments of malignant tumors
Dr. Olasz Lajos
8 Combined treatment and side effects of malignant tumors
Dr. Olasz Lajos
9 Seminar
Dr. Olasz Lajos
10 Diseases of the mandibular joint (TMJ)
Dr. Olasz Lajos
11 Bone lesions in the maxillofacial region

Dr. Olasz Lajos

12 Discussion

Dr. Olasz Lajos

Practices

1-36 Patient treatment in the clinical practice

Seminars

Exam topics/questions

1. a. The form of local and general anaesthesia
   b. Malignant tumors of the tissues, types and divisions
2. a. Complications of dental and oral surgical anaesthesia
   b. Treatment of combined fronto-basal-facial injuries
3. a. Removal of the teeth and roots, indications and contraindications
   b. Functional disease of the mandibular joint
4. a. Surgical removal of teeth or roots and flap preparation
   b. Tumors of the soft tissues
5. a. Surgical removal of the impacted and retained teeth
   b. Surgical treatment of the salivary gland diseases
6. a. Ostitis alveolaris
   b. Precanceroses
7. a. Surgery of the periapical area
   b. Combined treatment and side effects of malignant tumors
8. a. Periostitis of dental origin
   b. Fractures of TMJ and its treatment
9. a. Osteomyelitis and its treatment
   b. Malignant bone tumors
10. a. Non-specific inflammation of facial soft tissues
    b. Diagnosis of mandibular fractures and its types
11. a. Specific inflammation of facial soft tissues
    b. Conservative treatment of mandibular fractures
12. a. Cellulitis
    b. Bone system diseases, mandibular manifestation
13. a. Cysts of facial bones
    b. Surgical therapeutic possibilities of malignant tumors
14. a. Facial soft cysts
    b. Malign tumors of the facial and its diagnosis
15. a. Cyst operations
    b. Bone replacement, plastic surgery of the face soft tissues
16. a. Odontogenic sinusitis maxillaris
    b. Central midface fractures and treatments
17. a. Surgical technique of sinus closer
    b. Complications of mandibular fractures
18. a. Removal of the teeth in haemophilic patients
    b. Inflammations of TMJ
19. a. Congenital anomalies of the maxillo-facial area
    b. Therapy of mandibular fractures
20. a. Surgical treatment of dysgnathia
    b. Therapies of mandibular joint dislocation
21. a. Inflammatory diseases of salivary glands
    b. Odontogenic tumors
22. a. Differential diagnosis of dentoalveolar and maxillo-facial inflammations
    b. The general principles of facial and mandibular fractures treatment
23. a. Preprosthetic surgery
    b. Block-dissections of the neck
24. a. Differential diagnosis of trismus
    b. Maxillofacial bone tumors
25. a. Radiographic pictures of dento-alveolar diseases
    b. Lateral mid-face fractures

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Participants

Dr. Olasz Lajos (OLLPAAP.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZJFACO.PTE), Dr. Vajta László Ferenc (VALMAAO.PTE)