The University of Pécs Medical School

DENTISTRY
Major

STUDY PROGRAM
2011/2012

Subjects of the Clinical module (obligatory subjects)
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OSKBE1  INTERNAL MEDICINE 1
Course director: DR. ISTVÁN WITTMANN, professor
2nd Department of Internal Medicine

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 7
Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 1 – max. 100
Prerequisites: OSPBPR completed + OSPKO1 completed + OSPPA2 completed

**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**
Missing not more than 2 practices.

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

**Lectures**
1. Hypertension (types, causes, diagnostics).
   Dr. Kovács Tibor
2. Hypertension (complications, treatment).
   Dr. Kovács Tibor
3. Diabetes mellitus (types, symptoms, diagnostics, complications).
   Dr. Mazák István
   Dr. Wittmann István
5. Functions of the kidney. Glomerular and tubulointerstitial diseases.
   Dr. Nagy Judit
   Dr. Nagy Judit
7. Acute and chronic renal failure.
   Dr. Csiky Botond
   Dr. Sárosi Veronika
   Dr. Sárosi Veronika
10. Chronic obstructive pulmonary diseases.
    Dr. Sárosi Veronika
    Dr. Sárosi Veronika
    Dr. Czirják László
    Dr. Czirják László
    Dr. Czirják László

**Practices**
The themes of the practices follow the themes of the lectures.

**Seminars**

**Exam topics/questions**

**Participants**
Dr. Fábián György (FAGHAAE.PTE)
OSKCAR OPERATIVE DENTISTRY - CARIOLOGY

Course director: DR. EDINA LEMPEL, assistant lecturer
Dept. of Dentistry, Oral-, Maxillofacial Surgery

1 credit • semester exam • Clinical module • autumn semester • recommended semester: 7

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

Headcount limitations (min-max.): min. 3 – max. 25

Prerequisites: OSAORB completed + OSAPF2 completed + OSPMI1 completed

Topic
Basic information about the etiology, diagnosis and treatment of carious lesions.

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

1  The history of caries and early conceptions about its development
   Dr. Szabó Gyula
2  Biological behavior of the teeth
   Dr. Tóth Vilmos
3  Physiological role of the saliva in caries protection
   Dr. Lempel Edina
4  Composition of dental plaque, diagnostic procedures of plaque accumulation
   Dr. Tóth Vilmos
5  Role of Streptococci, Actinomycetes in plaque and caries development, role of the pulp during treatments
   Dr. Tóth Vilmos
6  Caries diagnostics
   Dr. Lempel Edina
7  Classification of caries, process of caries
   Dr. Lempel Edina
8  The role of nutrition in caries formation
   Dr. Marada Gyula
9  Caries management
   Dr. Lempel Edina
10 Caries epidemiology, caries activity tests
    Dr. Lempel Edina
11 The pathology and histopathology of caries
    Dr. Lempel Edina
12 Fissure sealing
    Dr. Tóth Vilmos
13 Caries prevention
    Dr. Szántó Ildikó
14 Mechanism of fluoride’s effect
    Dr. Szántó Ildikó

Practices

Seminars

Exam topics/questions

Participants
OSKFL2 PROSTHODONTICS 2

Course director: DR. GYULA SZABÓ, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

6 credit • semester exam • Clinical module • autumn semester • recommended semester: 7

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

Headcount limitations (min-max.): min. 2 – max. 20

Prerequisites: OSPFL1 completed + OSPORR completed + OSPPA2 completed

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

Conditions for acceptance of the semester

Making up for missed classes

Reading material
Removable Partial Prosthodontics GP Mc Givney, DJ Castleberry

Lectures
1. Consequents of edentulous states
   Dr. Szabó Gyula
2. Indications of prosthetic therapy
   Dr. Szabó Gyula
3. Requirements of dentures
   Dr. Szabó Gyula
4. Clinical aspects of RPD
   Dr. Szabó Gyula
5. Fábián-Fejérdy Class 1
   Dr. Szabó Gyula
6. Designing of saddles of RPD
   Dr. Szabó Gyula
7. Retention and clasps of RPD
   Dr. Szabó Gyula
8. Fábián-Fejérdy Class 1A
   Dr. Szabó Gyula
9. Fábián-Fejérdy Class 1B
   Dr. Szabó Gyula
10. Fábián-Fejérdy Class 2A
    Dr. Szabó Gyula
11. Fábián-Fejérdy Class 2B
    Dr. Szabó Gyula
12. Fábián-Fejérdy Class 2A/0
    Dr. Szabó Gyula
13. Fábián-Fejérdy Class 2
    Dr. Szabó Gyula
14. Implantation in prosthodontics
    Dr. Szabó Gyula

Practices
Patient treatment according to actual patient needs

Seminars

Exam topics/questions

Participants
Dr. Marada Gyula (MAGFABO.PTE)
OSKFS1 ORTHODONTICS 1
Course director: DR. GYULA TAMÁS SZABÓ, assistant lecturer
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 7
Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 1 – max. 20
Prerequisites: OSPFSP completed + OSPORR completed + OSPSZP completed

Topic
The aim of this subject is to give knowledge about different diagnostic methods in orthodontics.

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and examinations”.
Before the exam, a minimum test have to be written.

Making up for missed classes

Reading material

Lectures
1. History of orthodontics
   Dr. Szabó Gyula Tamás
2. Aim of orthodontic treatment, definition of treatment time
   Dr. Szabó Gyula Tamás
3. Etiology of orthodontic anomalies I
   Dr. Szabó Gyula Tamás
4. Etiology of orthodontic anomalies II
   Dr. Szabó Gyula Tamás
5. Developing of orthodontic anomalies (video)
   Dr. Szabó Gyula Tamás
6. Mechanism of appliances treating Class I anomalies I.
   Dr. Szabó Gyula Tamás
7. Mechanism of appliances treating Class I anomalies II.
   Dr. Szabó Gyula Tamás
8. Mechanism of appliances treating Class II anomalies I.
   Dr. Szabó Gyula Tamás
9. Mechanism of appliances treating Class II anomalies II.
   Dr. Szabó Gyula Tamás
10. Mechanism of appliances treating Class III anomalies
    Dr. Szabó Gyula Tamás
11. Extractions in orthodontics
    Dr. Szabó Gyula Tamás
12. Maxillo-mandible orthopedics
    Dr. Szabó Gyula Tamás
13. Orofacial Syndromes
    Dr. Szabó Gyula Tamás
14. Communication and praxis management
    Dr. Szabó Gyula Tamás

Practices
   Case reports, practicing of diagnostic steps

Seminars

Exam topics/questions
1. History of orthodontics
2. Aim of orthodontic treatment
3. Etiology of orthodontic anomalies
4. Planning orthodontic treatment, Definition of treatment time
5. Mechanism of appliances treating Class I anomalies
6. Mechanism of appliances treating Class II anomalies
7. Mechanism of appliances treating Class III anomalies
8. General rules of extractions in orthodontics
9. Maxillo-mandible orthopedics
10. Making orthodontic diagnosis
11. Radiological diagnosis in orthodontics
12. Cephalometry
13. Mechanism of orthodontic appliances: removable appliances
14. Mechanism of orthodontic appliances: fix appliances
15. Orthodontic model cast analysis
16. Materials used in orthodontics
17. Communication and praxis management
18. Documentation
19. Orofacial syndromes

Participants
Dr. Szabó Gyula Tamás (SZGFAO0.PTE)
OSKGF1  PAEDIATRIC DENTISTRY 1

Course director: DR. ILDIKÓ SZÁNTÓ, clinical specialist
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 7

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 3 – max. 25
Prerequisites: OSAANY completed + OSPFPP completed + OSPOFO completed

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

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations”.

Making up for missed classes
None

Reading material
RALPH E. McDONALD: Dentistry for the Child and Adolescent

Lectures
1. Embryology
   Dr. Szántó Ildikó
2. Developmental diseases
   Dr. Szántó Ildikó
3. Dental examination of children. Laboratory diagnostics.
   Dr. Szántó Ildikó
4. Caries diagnostic procedures of primary teeth and newly erupted teeth
   Dr. Szántó Ildikó
5. Caries protective diet, oral hygiene
   Dr. Szántó Ildikó
6. Risk assessment, caries activity tests
   Dr. Szántó Ildikó
7. Diagnostic procedures of pulp diseases
   Dr. Szántó Ildikó
8. Diagnostic procedures of periostitis
   Dr. Szántó Ildikó
   Dr. Szántó Ildikó
10. Fractures and luxations in childhood
    Dr. Szántó Ildikó
    Dr. Szántó Ildikó
12. Periodontal and gingival diagnostics
    Dr. Szántó Ildikó
13. X-ray examinations
    Dr. Szántó Ildikó
    Dr. Szántó Ildikó

Practices
Dental examination of children

Seminars

Exam topics/questions
1. Tooth developmental diseases (shapes, number of teeth)
2. Tooth developmental diseases (structure)
3. Tooth developmental diseases (congenital)
5. Dental examination of handicapped children.
6. Caries lesion, diagnostic procedure in deciduous dentition
7. Caries lesion, diagnostic procedure in newly erupted teeth
8. Risk assessment
9. Caries diagnostic procedure in high risk patients: caries activity tests
10. Pulp diseases
11. Periostitis
12. Injured permanent teeth - luxation
13. Injured deciduous teeth: luxation
14. Injured permanent teeth - fracture
15. Injured deciduous teeth - fracture
16. The types of soft tissue injuries
17. Emergency traumatic care in pediatric dentistry
18. Emergency inflammatory cases in pediatric dentistry
19. Periodontal diseases
20. Gingival diseases
21. Symptoms of infective systemic diseases in childhood
22. Symptoms of general systemic diseases in childhood
24. Dietary guidelines of caries prevention
25. X-ray diagnostic procedures

Participants
Dr. Sándor Balázs Attila (SABFAA.T.JPTE), Dr. Szántó Ildikó (SZINAJP.PTE)
OSKGNA Gnathology
Course director: DR. GYULA SZABÓ, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 7

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 2 – max. 24
Prerequisites: OSPFPP completed + OSPKO2 completed + OSPPA2 completed

Topic
Different concepts of occlusion, movement of temporomandibular joint and occlusal surface of molars and permolars are discussed.

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations”.

Making up for missed classes

Reading material
Science and Practice of Occlusion CMcNeill
Occlusion in Restorative Dentistry MG
Management of TMJ Disorders and Occlusion J P Okeson

Lectures
1. The physical basics of occlusion
   Dr. Szemtpétery András
2. The physical basics of articulation
   Dr. Szemtpétery András
3. Examination of articulation and occlusion
   Dr. Szemtpétery András
4. Articulators
   Dr. Szemtpétery András
5. Occlusal aspects of different tooth restorations
   Dr. Szemtpétery András
6. Requirements of ideal occlusion
   Dr. Szemtpétery András
7. Occlusal considerations of different restorations
   Dr. Szemtpétery András
8. Periodontal aspects of teeth contacts
   Dr. Szemtpétery András
9. The temporomandibular dysfunction syndrome
   Dr. Szemtpétery András
10. Nivellation of occlusal surfaces
    Dr. Szemtpétery András
11. Articulators
    Dr. Szemtpétery András
12. Treatment of TMD
    Dr. Szemtpétery András
13. Treatment of occlusal disorders
    Dr. Szemtpétery András
14. The traumatic (premature) occlusion
    Dr. Szemtpétery András

Practices
1. Impressions from upper and lower arches
2. Wax set-up of incisors, canine, premolars and molars
3. Usage of facebow

Seminars

Exam topics/questions
Multiple choice test

Participants
Dr. Szemtpétery András (SZAPAAP.PTE)
UP MS Dentistry major – subjects of the Clinical Module – academic year 2011/2012

OSKGT1 PHARMACOLOGY 1

Course director: DR. ERIKA PINTÉR, professor
Department of Pharmacology and Pharmacotherapy

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 7

Number of hours/semester: 14 lectures + 0 practices + 28 seminars = total of 42 hours
Headcount limitations (min-max.): min. 2 – max. 30
Prerequisites: OSPK02 completed + OSPPA2 completed

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.


Conditions for acceptance of the semester
Acceptance of the semester: According to the present rules of Medical Faculty in a case of absence from over 15% of seminars the Department will not validate the semester.

Making up for missed classes
Not possible

Reading material

Lectures
1. Cholinergic transmission 1: Muscarinic receptor agonists, cholinesterase inhibitors
   Dr. Helyes Zsuzsanna
2. Cholinergic transmission 2: Muscarinic receptor antagonists
   Dr. Pintér Erika
3. Cholinergic transmission 3: Neuromuscular blocking agents
   Dr. Helyes Zsuzsanna
4. Agents acting on biosynthesis, storage, release and elimination of catecholamines
   Dr. Pintér Erika
5. Adrenergic receptor agonists
   Dr. Pintér Erika
6. Adrenergic receptor antagonists
   Dr. Pintér Erika
7. Local anaesthetics
   Dr. Helyes Zsuzsanna
8. Calcium channel blockers
   Dr. Helyes Zsuzsanna
9. Drugs acting on the renin-angiotensin-aldosterone system
   Dr. Pintér Erika
10. Antiarrhythmic drugs
    Dr. Pethő Gábor
11. Antianginal drugs
    Dr. Barthó Loránd
12. Drugs used to treat congestive heart failure
    Dr. Helyes Zsuzsanna
13. Immunopharmacology
    Dr. Pintér Erika
14 Drugs used to treat hyperlipoproteinaemias  
Dr. Gregus Zoltán

Practices

Seminars
1 Introduction: pharmacology and related subjects, drug names; drug compendia; prescription writing; drug development (E. Pinter)
2 Introduction: pharmacology and related subjects, drug names; drug compendia; prescription writing; drug development (E. Pinter)
3 Drug formulations (E. Pinter)
4 Drug formulations (E. Pinter)
5 Basic mechanisms of drug actions. Characterization of agonist-receptor interaction I. (Zs. Helyes)
6 Basic mechanisms of drug actions. Characterization of agonist-receptor interaction I. (Zs. Helyes)
7 Characterization of agonist-receptor interaction II: Mechanisms of drug antagonisms, signal transduction pathways of drug receptors, tachyphylaxis and tolerance to drugs (Zs. Helyes)
8 Characterization of agonist-receptor interaction II: Mechanisms of drug antagonisms, signal transduction pathways of drug receptors, tachyphylaxis and tolerance to drugs (Zs. Helyes)
9 Basic mechanisms and quantitative aspects of pharmacokinetics (B. Nemeti)
10 Basic mechanisms and quantitative aspects of pharmacokinetics (B. Nemeti)
11 Histamine, H1 and H2 receptor antagonists (E. Pinter)
12 Histamine, H1 and H2 receptor antagonists (E. Pinter)
13 Serotonin, serotonin receptor agonists and antagonists (Zs. Helyes)
14 Serotonin, serotonin receptor agonists and antagonists (Zs. Helyes)
15 Eicosanoids, drugs acting on smooth muscle (Zs. Helyes)
16 Eicosanoids, drugs acting on smooth muscle (Zs. Helyes)
17 Diuretic drugs (E. Pinter)
18 Diuretic drugs (E. Pinter)
19 Antihypertensive drugs (E. Pinter)
20 Antihypertensive drugs (E. Pinter)
21 Drugs affecting haemopoiesis (Zs. Helyes)
22 Drugs affecting haemopoiesis (Zs. Helyes)
23 Drugs affecting the coagulation system (E. Pinter)
24 Drugs affecting the coagulation system (E. Pinter)
25 Group discussion on the autonomic nervous system (E. Pinter)
26 Group discussion on the autonomic nervous system (E. Pinter)
27 Group discussion on the cardiovascular system (Zs. Helyes)
28 Group discussion on the cardiovascular system (Zs. Helyes)

Exam topics/questions
1. Definition of pharmacology and the related subjects. Drug development
2. Drug names, drug compendia. Prescription writing
3. Drug formulations
4. Basic mechanisms of drug actions (examples of drug effects on receptors, ion channels, enzymes, carrier systems and effects mediated by physicochemical interactions)
5. Characterisation of agonist-receptor interaction: occupancy, affinity, dose-response curve, potency, efficacy
6. Significance of signal transduction mechanisms in the effects of drugs. Tachyphylaxis and tolerance to drugs, mechanisms of drug antagonisms
7. Pharmacokinetics I: Absorption of drugs, presystemic elimination, plasma protein binding and tissue distribution of drugs, biotransformation and excretion of drugs
8. Pharmacokinetics II: zero and first order elimination, volume of distribution, clearance, elimination half-life, oral bioavailability, calculation of loading and maintenance doses
9. Cholinergic agonists and cholinesterase inhibitors
10. Muscarinic receptor antagonists
11. Neuromuscular blocking agents
12. Agents acting on the biosynthesis, storage, release and elimination of catecholamines
13. Adrenergic receptor agonists
14. Adrenergic receptor antagonists
15. Local anaesthetics
16. Calcium channel blockers
17. Drugs acting on the renin-angiotensin-aldosterone system
18. Diuretic drugs
19. Drugs used to treat congestive heart failure
20. Antianginal drugs
21. Antihypertensive drugs
22. Antiarrhythmic drugs
23. Drugs used to treat hyperlipoproteinaemias
24. Drugs affecting haemostasis
25. Drugs affecting haematopoiesis
26. Histamine, histamine H1 and H2 receptor antagonists
27. Serotonin and serotonin receptor antagonists
28. Eicosanoids, drugs acting on smooth muscle
29. Immunopharmacology

Participants
Dr. Barthó Loránd (BALIAAO.PTE), Dr. Gregus Zoltán (GRZMAAO.PTE), Dr. Helyes Zsuzsanna (HEZFAAO.PTE), Dr. Németi Balázs Ferenc (NEBMAAO.PTE), Dr. Pethő Gábor (PEGGAAO.PTE), Dr. Pintér Erika (PIEMAAO.PTE), Dr. Pozsgai Gábor (POGFAAO.PTE)
OSKOPF OPERATIVE DENTISTRY - OPERATIVE DENTISTRY

Course director: DR. EDINA LEMPEL, assistant lecturer
Dept. of Dentistry, Oral-, Maxillofacial Surgery

5 credit • semester exam • Clinical module • autumn semester • recommended semester: 7
Number of hours/semester: 14 lectures + 56 practices + 0 seminars = total of 70 hours
Headcount limitations (min-max.): min. 3 – max. 25
Prerequisites: OSAANY completed + OSAFI1 completed + OSPOFO completed

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”.

Making up for missed classes

Reading material

Lectures

1 Instruments for the preparation of hard tooth structures, the proper use of them
   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 Ceramics (clinical pertains), composite resins (clinical pertains)
   Dr. Lempel Edina
5 Dental bonding agents
   Dr. Lempel Edina
6 Dental bonding agents
   Dr. Lempel Edina
7 Kinds of composite resin filling materials and their use
   Dr. Lempel Edina
8 Minimal invasive restorations. Composite resin fillings, plying techniques
   Dr. Lempel Edina
9 The making of esthetic composite resin and porcelain veneers
   Dr. Lempel Edina
10 The making of indirect class I., II., V. fillings. (Inlay)
    Dr. Lempel Edina
11 The use of flowable composite resins, compomers and modern glass-ionomer cements in esthetic dentistry
    Dr. Lempel Edina
12 Class III. and class IV. cavity fillings
    Dr. Lempel Edina
13 Special cavity preparations, dentin pins, lining, extra-radicular anchorage
    Dr. Lempel Edina
14 Intra- and parapulpal posts
    Dr. Lempel Edina

Practices
Patient treatment in clinical practice

Seminars

Exam topics/questions
Exam Questions:
1. The diagnostics of caries and its complications
2. The principles of cavity preparation, classification of cavities, nomenclature
3. Hand instruments used for cavity preparation
4. Rotary instruments and equipments
5. Pain, trauma and moisture control during treatments
6. Metallic filling materials, gutta-percha, temporary filling materials
7. Cements
8. Resins, composite resin filling materials
9. Class I. cavity preparation for plastic filling
10. Class I. cavity preparation for solid filling
11. Class II. cavity preparation for plastic filling
12. Class II. cavity preparation for solid filling
13. Class III. cavity preparation for plastic filling
14. Class IV. cavity preparation for plastic filling
15. Class V. cavity preparation for plastic filling
16. Class V. cavity preparation for solid filling
17. Making of an inlay (slice preparation, direct, indirect modeling)
18. Modeling, checking and cementing the class I. inlay
19. Modeling, checking and cementing the class II. inlay
20. Modeling, checking and cementing the class V. inlay
21. Making of an onlay
22. Indications and criteria for using a dentin pins
23. Indications and criteria for using intra-radicular posts

Participants
Dr. Lempel Edina (LEEFABO.PTE)
OSKSZ1 ORAL SURGERY 1
Course director:
DR. LAJOS OLASZ, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • midsemester grade • Clinical module • autumn semester • recommended semester: 7
Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 1 – max. 30
Prerequisites: OSPPA2 completed + OSPSZP completed + OSKGT1 parallel

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

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations”.

Making up for missed classes
No possibility

Reading material
Lectures
1 General anesthesia. Indications and contraindications. Anesthetic solutions.
   Dr. Olasz Lajos
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
   Dr. Szalma József
7 Periostitis, abscess and cellulitis from dental origin. Symptoms and therapy.
   Dr. Szalma József
8 Abscesses. Local anesthesia of inflamed areas. Rules of incision.
   Dr. Szalma József
9 Osteomyelitis. Diagnosis and therapy.
   Dr. Olasz Lajos
10 Alveolar ostitis (dry socket syndrome). Osteoradionecrosis. BION
   Dr. Szalma József
11 Phlegmon; 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. Olasz Lajos
14 Seminary test, consultation.
   Dr. Szalma József

Practices
Patient treatment in the clinical practice

Seminars
Exam topics/questions
Participants
Dr. Gelencsér Gábor (GELADOB.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZJFACO.PTE)
### UP MS Dentistry major – subjects of the Clinical Module – academic year 2011/2012

#### OSKBE2 INTERNAL MEDICINE 2

<table>
<thead>
<tr>
<th>Course director:</th>
<th>DR. LÁSZLÓ BAJNOK, associate professor</th>
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<tbody>
<tr>
<td>1st Department of Internal Medicine</td>
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</table>

- **4 credit • semester exam • Clinical module • spring semester • recommended semester: 8**

#### 28 lectures + 28 practices + 0 seminars = total of 56 hours

#### Headcount limitations (min-max.):

- min 1 – max. 0

#### Prerequisites:

- OSPBPR completed + OSPKO2 completed + OSKGT2 parallel

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### 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.

### Making up for missed classes during the semester

#### Reading material


#### Lectures

   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
   Dr. Bajnok László
    Dr. Bajnok László
    Dr. Bódis Beáta
    Dr. Bódis Beáta
    Dr. Bódis Beáta
    Dr. Bódis Beáta
   Acute and chronic hepatitis.  
   Dr. Bódis Beáta
   Acute and chronic hepatitis.  
   Dr. Bódis Beáta
17. Liver cirrhosis. Pancreatitis.  
   Dr. Bódis Beáta
   Dr. Bódis Beáta
   Dr. Bódis Beáta
   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
   Dr. Bódis Beáta
   Dr. Bódis Beáta
25 Endocrinology. Diseases of the thyroid gland and parathyroids.
   Dr. Bajnok László
26 Endocrinology. Diseases of the thyroid gland and parathyroids.
   Dr. Bajnok László
27 Diseases of pituitary and suprarenal gland.
   Dr. Bajnok László
28 Diseases of pituitary and suprarenal gland.
   Dr. Bajnok László

Practices
3. Arrhythmias
4. Arrhythmias

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. Peripheral 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

Participants
Dr. Bajnok László (BALPAB.PTE), Dr. Bódis Beáta (BOBHAAE.PTE)
OSKEND  OPERATIVE DENTISTRY - ENDODONTICS

Course director: DR. EDINA LEMPEL, assistant lecturer
        Dept. of Dentistry, Oral-, Maxillofacial Surgery

5 credit • semester exam • Clinical module • spring semester • recommended semester: 8
Number of hours/semester: 14 lectures + 56 practices + 0 seminars = total of 70 hours
Headcount limitations (min-max.): min. 1 – max. 25
Prerequisites: OSPOFO completed + OSKCAR completed + OSKGF1 completed

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”.

Making up for missed classes

Reading material
Stephen Cohen: Pathways of the Pulp

Lectures
1. The modern concept of endodontics (goals and principles)
   Dr. Lempel Edina
2. Endodontic examination methods, treatment planning
   Dr. Lempel Edina
3. Endodontic examination methods, differential diagnosis of facial pains
   Dr. Lempel Edina
4. Pulp diseases and their differential diagnosis
   Dr. Lempel Edina
5. Diseases of the periapical region, their differential diagnosis
   Dr. Lempel Edina
6. Armamentarium for endodontics (instruments and equipments)
   Dr. Lempel Edina
7. Nickel-Titanium (NiTi) systems, electronic appliances, use of the stereoscopic surgical microscope for endodontics
   Dr. Lempel Edina
8. Anatomy and histology of the root-canals
   Dr. Lempel Edina
9. Instruments for root-canal preparations, root-canal filling instruments
   Dr. Lempel Edina
    Dr. Lempel Edina
11. Step-back technique, step-down technique, double-flared technique
    Dr. Lempel Edina
12. Balanced-force technique. Materials used for root-canal filling. The adaptation of the master point
    Dr. Lempel Edina
13. Lateral and vertical condensation. The removal of the root-canal filling
    Dr. Lempel Edina
14. Additional surgical methods in endodontics (incision, resection, etc.)
    Dr. Lempel Edina

Practices
1. Instruments and materials used in endodontics
2. Trepanation, working length determination, root-canal preparation with step-back technique on an extracted incisor, molded in wax
3. Root-canal filling with lateral condensation technique on the incisor
4. Trepanation, working length determination, root-canal preparation with standard technique, adaptation of the master point on an extracted premolar, molded in wax
5. Trepanation, working length determination, root-canal preparation with anticurvature filing technique on an extracted molar molded in wax
6. 14. Root-canal treatment on patients in clinical practice
Seminars

Exam topics/questions

Exam questions

1. The modern concept of endodotics
2. Systemic diseases, considerable from the endodontic treatment’s point of view
3. Endodontic examination methods
4. Inflammatory diseases of the pulp, their differential diagnosis
5. Non-inflammatory conditions of the pulp, pathology, clinical aspects
6. Endodontic hand instruments and equipment
7. Endodontic rotary instruments and equipment
8. Disinfection and sterilization of instruments used for endodontic treatments
9. Acute endodontic treatments
10. Pulpchamber and root-canal morphology of the incisors
11. Pulpchamber and root-canal morphology of the molars
12. Standard technique for root-canal preparation
13. Step-back technique for root-canal preparation
15. Balanced-force technique for root canal preparation
16. Chemical preparation, disinfection, irrigation and recapitulation of the root-canal
17. Root-canal preparation with nickel-titanium (NiTi) rotary instruments
18. Ultrasonic-frequency technique, sonic techniques
19. Lateral condensation gutta-percha filling technique, lateral condensation with warm gutta-percha
20. Vertical condensation gutta-percha filling technique, lateral condensation with warm gutta-percha
21. The mechanism of calcium-hydroxide’s effect, its use in the clinical practice
22. Root-canal medication
23. Apexification
24. Types of external resorption, types of internal resorption
25. Periodontic-endodontic lesions
26. Incision, the making of an artificial fistula. Periapical curettage
27. Root apex resection (apicoectomy), retrograde root filling, types of flaps in endodontic surgery
28. Root filling materials, and sealers
29. Pulp capping
30. Endodontic considerations of infectious foci
31. Creating the apical stop point. Adaptation of the master point
32. Trepanation, trepanation cavity
33. Determination of the working length
34. Principles of root-canal preparation
35. Histology of the pulp
36. Asepsis (sterility), isolation in endodontics
37. X-rays taken during endodontic therapy
38. Pulpectomy, pulpotomy
39. Vitalextripation
40. Mortalextripation
41. The pathology of painful periapical diseases, their clinical aspects
42. The pathology of painless periapical diseases, their clinical aspects
43. The indications and making of intra-radicular posts

Participants

Dr. Lempel Edina (LEEFABO.PTE)
OSKFL3 PROSTHODONTICS 3

Course director: Dr. Gyula Szabó
Dept. of Dentistry, Oral-, Maxillofacial Surgery

5 credit • semester exam • Clinical module • spring semester • recommended semester: 8

Number of hours/semester: 14 lectures + 56 practices + 0 seminars = total of 70 hours
Headcount limitations (min-max.): min. 1 – max. 25
Prerequisites: OSKCAR completed + OSKFL2 completed + OSKGNA completed

Topic
The aim of this course is to present the indications and contraindications of fixed prosthodontics.

Conditions for acceptance of the semester
Making up for missed classes
No possibility

Reading material

Lectures
1. Biomechanical principles of tooth preparation
   Dr. Szabó Gyula
2. Instrumentation of tooth preparation
   Dr. Szabó Gyula
3. Finishing line preparation and protection of soft-tissues
   Dr. Szabó Gyula
4. Restoration of damaged teeth, Temporary FPD
   Dr. Szabó Gyula
5. Full veneer crowns
   Dr. Szabó Gyula
6. Partial veneer crowns
   Dr. Szabó Gyula
7. Crowns for RPD support
   Dr. Szabó Gyula
8. Clinical aspects of porcelain-fused-to-metal crowns
   Dr. Szabó Gyula
9. Full ceramic crowns
   Dr. Szabó Gyula
10. Tooth shade matching
    Dr. Szabó Gyula
11. Designing of FPD
    Dr. Szabó Gyula
12. Dove-crown
    Dr. Szabó Gyula
13. Implant supported RPD and overdenture
    Dr. Szabó Gyula
14. Implant supported FPD
    Dr. Szabó Gyula

Practices
Patient treatment according to actual patient needs

Seminars

Exam topics/questions
1. Indications of FPD
2. Types of FPD, materials and odontotechnology
3. Biomechanical principles of preparation
4. Axial wall preparation and the cast
5. Retention of FPD
6. Finish line design and the periodontium
7. Preparation modification for damaged teeth
8. Materials and methods of restoration of damaged teeth
9. Retention and resistance by non-vital teeth
10. Soft-tissue management before impression
11. Materials and methods of soft-tissue management
12. Types of impression, the precise impression
13. Instrumentation of tooth preparation, modern ergonomic concepts
14. Instrumentation: burs
15. Biomechanical principles of abutment tooth preparation
16. Biomechanical principles of full veneer crown preparation
17. Three-quarter crowns
18. Seven-eights crowns and other partial crowns
19. Adhesive bridges
20. Dovel-core
21. Treatment of endodontically treated teeth
22. Designing of porcelain-fused-to-metal bridges
23. Implant support prosthesis
24. Implant support FPD
25. Implant support RPD and overdenture
26. Luting of FPD
27. Indications of telescopic crowns
28. Clinical aspects of telescopic crowns and prosthesis
29. Porcelain-fused-to-metal crowns on anterior teeth, materials and methods
30. Porcelain-fused-to-metal crowns on posterior teeth, materials and methods
31. Indications of temporary crowns
32. Types of temporary crowns, temporary luting
33. Protection of core after preparation
34. Preparation of full ceramic crowns
35. Indications of full ceramic FPD
36. Materials and odontotechnology of full ceramic FPD
37. Different aspects of prosthesis in younger patients

Participants
Dr. Benke Beáta (BEBFADO.PTE), Dr. Marada Gyula (MAGFABO.PTE)
OSKGF2 Paediatric Dentistry 2

Course director: DR. ILDIKÓ SZÁNTÓ, clinical specialist
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • spring semester • recommended semester: 8

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 3 – max. 25
Prerequisites: OSKCAR completed + OSKGF1 completed + OSKGNA completed

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

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations”.

Making up for missed classes
None

Reading material
Lectures
1. Pain killers in childhood
   Dr. Szántó Ildikó
2. Dental care of handicapped children
   Dr. Szántó Ildikó
3. Dental materials, medication
   Dr. Szántó Ildikó
4. Cariological treatment of primary teeth
   Dr. Szántó Ildikó
5. Cariological treatment of young permanent teeth. Fissure sealing
   Dr. Szántó Ildikó
6. Treatment of pulp diseases in primary teeth
   Dr. Szántó Ildikó
7. Treatment of pulp diseases of young permanent teeth (traumatic, inflamed)
   Dr. Szántó Ildikó
8. Treatment of periostitis
   Dr. Szántó Ildikó
9. Treatment of gingival and oral mucosal diseases
   Dr. Szántó Ildikó
10. Treatment of luxations
    Dr. Szántó Ildikó
11. Treatment of fractured primary teeth
    Dr. Szántó Ildikó
    Dr. Szántó Ildikó
13. Dentures in childhood
    Dr. Szántó Ildikó
14. Consultation
    Dr. Szántó Ildikó

Practices
Dental treatments in children according to the Outpatient Department.

Seminars
Exam topics/questions
1. Local pain killers
2. Systemic pain killers, sedation, anaesthesia
3. Pain killer medication
4. The types of mental retardation, the care of handicapped children
5. Caries treatment in primary incisors
6. The care of physically retarded and autism children
7. Caries treatment in primary molars
8. Caries treatment in newly erupted teeth
9. Pulpotomy,
10. Pulpectomy
11. Apexification in injured tooth, apexogenesis
12. Apexification in inflammed tooth
13. Treatment of periostitis
14. Treatment of fractured primary teeth
15. Treatment of fractured newly erupted teeth
16. Emergency care of traumatic cases. The origin of dental injuries
17. Treatment of luxation in primary dentition
18. Treatment of luxation in permanent dentition
19. Fixed dentures in childhood
20. Removable dentures in childhood
21. Treatment of gingival diseases
22. Treatment in anaesthesia
23. Dental materials in childhood
25. Emergency care of dental inflammation cases

Participants
Dr. Sándor Balázs Attila (SABFAA.T.JPTE), Dr. Szántó Ildikó (SZINAJP.PTE)
OSKGT2  PHARMACOLOGY 2
Course director:  
DR. ERIKA PINTÉR, professor  
Department of Pharmacology and Pharmacotherapy

<table>
<thead>
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<th>3 credit • final exam • Clinical module • spring semester • recommended semester: 8</th>
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<td>Number of hours/semester: 14 lectures + 0 practices + 28 seminars = total of 42 hours</td>
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<tr>
<td>Headcount limitations (min-max.): min. 2 – max. 30</td>
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<td>Prerequisites: OSKGT1 completed</td>
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</tbody>
</table>

**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, antituberculositics. Antifungal drugs, antiviral agents, antiseptics and disinfectants.

**Conditions for acceptance of the semester**

According to the present rules of Medical Faculty in a case of absence from over 15% of seminars the Department will not validate the semester.

**Making up for missed classes**

Not possible

**Reading material**


**Lectures**

1. Thyroid hormones, antithyroid drugs  
   Dr. Helyes Zsuzsanna
2. Parathyroid hormone, vitamin D and drug treatment of osteoporosis  
   Dr. Helyes Zsuzsanna
3. Oestrogens, anti-oestrogens, progestogens and anti-progestogen; oral contraceptives  
   Dr. Pozsgai Gábor
4. Androgens, anabolic steroids and anti-androgens  
   Dr. Pozsgai Gábor
5. Pituitary hormones  
   Dr. Helyes Zsuzsanna
6. Antiepileptic drugs  
   Dr. Helyes Zsuzsanna
7. Antianxiety and hypnotic drugs  
   Dr. Barthó Loránd
8. Antipsychotic drugs  
   Dr. Barthó Loránd
9. Antidepressants  
   Dr. Pintér Erika
10. Sulphonamides and trimethoprim. Fluoroquinolones  
    Dr. Helyes Zsuzsanna
11. Aminoglycosides and antimycobacterial agents  
    Dr. Gregus Zoltán
12. Beta-lactam antibiotics  
    Dr. Pintér Erika
13. Tetracyclines, chloramphenicol, macrolide antibiotics  
    Dr. Pintér Erika
14. Antifungal agents, clindamycin, vancomycin  
    Dr. Pintér Erika
Practices

Seminars
1 Pharmacology of the respiratory tract (Zs. Helyes)
2 Pharmacology of the respiratory tract (Zs. Helyes)
3 Pharmacology of the gastrointestinal tract 1: therapy of acid-related diseases, antiemetics (E. Pintér)
4 Pharmacology of the gastrointestinal tract 1: therapy of acid-related diseases, antiemetics (E. Pintér)
5 Pharmacology of the gastrointestinal tract 2: laxatives/purgatives, obstipants, therapy of liver diseases, drugs affecting the biliary tract, inflammatory bowel disease (G. Pozsgai)
6 Pharmacology of the gastrointestinal tract 2: laxatives/purgatives, obstipants, therapy of liver diseases, drugs affecting the biliary tract, inflammatory bowel disease (G. Pozsgai)
7 Insulin, glucagon and oral hypoglycaemic agents (E. Pintér)
8 Insulin, glucagon and oral hypoglycaemic agents (E. Pintér)
9 Gluco- and mineralocorticoids (Zs. Helyes)
10 Gluco- and mineralocorticoids (Zs. Helyes)
11 General anaesthetics (Zs. Helyes)
12 General anaesthetics (Zs. Helyes)
13 Treatment of neurodegenerative disorders, centrally acting muscle relaxants (Zs. Helyes)
14 Treatment of neurodegenerative disorders, centrally acting muscle relaxants (Zs. Helyes)
15 Opioid analgesic drugs (L. Barthó)
16 Opioid analgesic drugs (L. Barthó)
17 Non-steroidal anti-inflammatory drugs (G. Pethő)
18 Non-steroidal anti-inflammatory drugs (G. Pethő)
19 Drug abuse and dependence (E. Pintér)
20 Drug abuse and dependence (E. Pintér)
21 Antiseptics and disinfectants (Zs. Helyes)
22 Antiseptics and disinfectants (Zs. Helyes)
23 Antiviral drugs (Zs. Helyes)
24 Antiviral drugs (Zs. Helyes)
25 Drugs used in chemotherapy of neoplastic diseases (G. Pethő)
26 Drugs used in chemotherapy of neoplastic diseases (G. Pethő)
27 Drug interactions. Drug allergy. Cytotoxic/embryotoxic effects of drugs (E. Pintér)
28 Drug interactions. Drug allergy. Cytotoxic/embryotoxic effects of drugs (E. Pintér)

Exam topics/questions
1. Definition of pharmacology and the related subjects. Drug development
2. Drug names, drug compendia. Prescription writing
3. Drug formulations
4. Basic mechanisms of drug actions (examples of drug effects on receptors, ion channels, enzymes, carrier systems and effects mediated by physicochemical interactions)
5. Characterisation of agonist-receptor interaction: occupancy, affinity, dose-response curve, potency, efficacy
6. Significance of signal transduction mechanisms in the effects of drugs. Tachyphylaxis and tolerance to drugs, mechanisms of drug antagonisms
7. Pharmacokinetics I: Absorption of drugs, presystemic elimination, plasma protein binding and tissue distribution of drugs, biotransformation and excretion of drugs
8. Pharmacokinetics II: zero and first order elimination, volume of distribution, clearance, elimination half-life, oral bioavailability, calculation of loading and maintenance doses
9. Cholinergic agonists and cholinesterase inhibitors
10. Muscarinic receptor antagonists
11. Neuromuscular blocking agents
12. Agents acting on the biosynthesis, storage, release and elimination of catecholamines
13. Adrenergic receptor agonists
14. Adrenergic receptor antagonists
15. Local anaesthetics
16. Calcium channel blockers
17. Drugs acting on the renin-angiotensin-aldosterone system
18. Diuretic drugs
19. Drugs used to treat congestive heart failure
20. Antiarrhythmic drugs
21. Antihypertensive drugs
22. Antiarrhythmic drugs
23. Drugs used to treat hyperlipoproteinaemias
24. Drugs affecting haemostasis
25. Drugs affecting haematopoiesis
26. Histamine, histamine H1 and H2 receptor antagonists
26. Serotonin and serotonin receptor antagonists
27. Eicosanoids, drugs acting on smooth muscle
28. Pharmacology of the respiratory tract
29. Pharmacology of the gastrointestinal tract I.: drugs in the treatment of acid-related diseases, prokinetic drugs, emetics, anti-emetics
30. Pharmacology of the gastrointestinal tract II.: laxatives, antidiarrhoeal agents, drug treatment of inflammatory bowel diseases, drugs used in cholelithiasis and liver diseases
31. Antianxiety and hypnotic drugs
32. Antipsychotic drugs
33. Antidepressants
34. Antiepileptic drugs
35. Drug abuse
36. Drug treatment of neurodegenerative disorders, centrally acting muscle relaxants
37. General anaesthetics
38. Opioid analgesic drugs
39. Non-steroidal antiinflammatory drugs
40. Hypothalamic and pituitary hormones
41. Gluco- and mineralocorticoids
42. Oestrogens, anti-oestrogens, progestogens, anti-progestogens
43. Hormonal contraceptives
44. Androgens, anabolic steroids, anti-androgens
45. Thyroid hormones, antithyroid drugs
46. Insulin and oral hypoglycaemic agents. Glucagon
47. Drugs affecting bone metabolism
48. Sulphonamides and trimethoprim. Fluoroquinolones
49. Beta-lactam antibiotics
50. Tetracyclines, chloramphenicol, macrolide antibiotics clindamycin, vancomycin
51. Aminoglycosides and antitubercular agents
52. Antifungal drugs
53. Antiviral drugs
54. Antiseptics and disinfectants
55. Drugs used in the chemotherapy of neoplastic diseases: alkylating agents, antimetabolites
56. Drugs used in the chemotherapy of neoplastic diseases: alkaloids, antibiotics, hormonal agents, biological therapy
57. Immunopharmacology

Participants
Dr. Barthó Loránd (BALIAAO.PTE), Dr. Helyes Zsuzsanna (HEZFAAO.PTE), Dr. Pethő Gábor (PEGGAO.PTE), Dr. Pintér Erika (PIEMAAO.PTE), Dr. Pozsgai Gábor (POGFAAO.PTE)
OSKPD1 PARODONTOLOGY 1 - PARODONTOLOGY
Course director: DR. ÁGNES BÁN, assistant professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • spring semester • recommended semester: 8

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 3 – max. 0
Prerequisites: OSAIMM completed + OSAORB completed + OSPPA2 completed

Topic
Information about etiology of different diseases of periodontium. Basic treatment strategies.

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations“. Assumption of the exam is the acceptance of the practical requirements.

Making up for missed classes
No chance.

Reading material

Lectures
1. Periodontal patient examination, charting
   Dr. Tóth Vilmos
2. Motivation, oral hygienic instructions
   Dr. Tóth Vilmos
3. Scaling
   Dr. Tóth Vilmos
4. Deposits on tooth surfaces 1.
   Dr. Tóth Vilmos
5. Classification of periodontal diseases
   Dr. Tóth Vilmos
6. Role of bacteriums in the etiology of periodontal disease
   Dr. Tóth Vilmos
7. Local factors in the etiology of periodontal diseases
   Dr. Tóth Vilmos
8. Role of systemic diseases in the etiology of periodontal diseases
   Dr. Tóth Vilmos
9. Pathogenesis of plaque induced periodontitis
   Dr. Tóth Vilmos
10. Epidemiology of periodontal diseases. Periodontal indexes. Prognosis
    Dr. Tóth Vilmos
11. Clinical signs of gingivitis, therapy
    Dr. Tóth Vilmos
12. Clinical signs of periodontitis, therapy
    Dr. Tóth Vilmos
13. Acute painful periodontal diseases and therapy
    Dr. Tóth Vilmos
14. Maintenance and recall. Prognosis
    Dr. Tóth Vilmos

Practices
Patient treatment

Seminars

Exam topics/questions
Exam questions:
1. Structure of function of the gingiva, the gingival sulcus
2. Structure and function of periodontal membrane, mechanism of eruption, epithelial attachment
3. Structure and function of cementum and alveolar process
4. Formation of plaque, supra and subgingival plaque
5. Calculus, materia alba, and other deposits on tooth surfaces
6. Role of bacterium in periodontal diseases
7. Local factors with natural origin in the etiology of periodontal diseases
8. Local factors with iatrogen origin in the etiology of periodontal diseases
9. Cantilever and other efforts in the etiology of periodontal diseases
10. Mechanism of periodontal inflammation, initial and early lesions
11. Mechanism of periodontal inflammation, established and advanced lesions
12. Signs of gingivitis ulcerosa, stages
13. Differential diagnosis of gingivitis ulcerosa, therapy
14. Signs of gingivitis, therapy (except ANUG)
15. Clinical signs of chronic periodontitis, stages
16. Prepubertal, rapidly progressive periodontitis (RPP) and juvenile periodontitis (LJP)
17. Morphology of recession of periodontium
18. The periodontal abscess and plaque associated diseases
19. Patient examination, charting
20. Diagnosis, treatment plan and prognosis
21. Aim of motivation, materials and methods
22. Aim of instruction, materials and methods
23. Toothbrushing technique, purpose, materials and methods
24. Interdental hygiene
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 occlusion correction
30. Classification of gingival diseases
31. Classification of periodontal diseases

Participants
Dr. Tóth Vilmos (TOVLAAO.PTE), Millei László dr.
**OSKSZ2 Oral Surgery 2**

**Course director:**

**DR. LAJOS OLASZ**, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

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**3 credit • semester exam • Clinical module • spring semester • recommended semester: 8**

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

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

**Prerequisites:** OSPOFO completed + OSPPA2 completed + OSKSZ1 completed

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**Topic**

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

**Conditions for acceptance of the semester**

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

**Making up for missed classes**

No possibility

**Reading material**

**Lectures**

   - Dr. Szalma József
2. Antral inflammation due to dental origin. Sinusitis maxillaris odontogenes
   - Dr. Szalma József
   - 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
   - Dr. Szalma József
   - Dr. Olasz Lajos
   - Dr. Olasz Lajos
    - Dr. Olasz Lajos
11. Implantation
    - Dr. Szalma József
    - Dr. Olasz Lajos
13. Radiological signs in the aspects of dentoalveolar diseases.
    - Dr. Szalma József
14. Osteodistraction. Hard tissue augmentation
    - Dr. Szalma József

**Practices**

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 retained 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
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.

Participants
Dr. Gelencsér Gábor (GELADOB.PTE), Dr. Olasz Lajos (OLLPAAP.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZIFACO.PTE)
OSKBOR DERMATOLOGY

Course director: DR. ZITA SZEKERES-BATTYÁNI, associate professor
Department of Dermatology and Venereology

2 credit • semester exam • Clinical module • autumn semester • recommended semester: 9
Number of hours/semester: 14 lectures + 14 practices + 0 seminars = total of 28 hours
Headcount limitations (min-max.): min. 5 – max. 140
Prerequisites: OSAIMM completed + OSPBPR completed

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 hour of theoretical and one hour 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 oral.

Making up for missed classes
Misses of the practice is not accepted.

Reading material

Lectures
1. The physiology, pathophysiology and histopathology of the skin. Primary, elementary lesions.
   Dr. Moezzi Mehdi
2. Secondary lesions of the skin.
   Dr. Moezzi Mehdi
3. Fungal diseases with cutaneous involvement.
   Dr. Moezzi Mehdi
4. Allergic diseases
   Dr. Moezzi Mehdi
5. Immunopathological diseases
   Dr. Moezzi Mehdi
   Dr. Moezzi Mehdi
7. Cutaneous tumors of the skin
   Dr. Moezzi Mehdi
8. Psoriasis vulgaris, Lichen ruber planus, papillon lefevre syndrom
   Dr. Moezzi Mehdi
9. Drug eruptions
   Dr. Moezzi Mehdi
10. Methabolic disorders
    Dr. Moezzi Mehdi
    Dr. Moezzi Mehdi
12. Sexually transmitted diseases
    Dr. Moezzi Mehdi
13. Pyodermy and bacillar and tuberculotic diseases
    Dr. Moezzi Mehdi
14. Viral infection. Dermatoses caused by parasites.
    Dr. Moezzi Mehdi
Practices

1. Patient examination
2. Dermatological 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 autoimmune diseases
9. Drug eruptions treatment
10. Psoriasis and its variant
11. Investigations in autoimmune diseases
12. Skin tumors
13. Mucosal diseases 1
14. Mucosal diseases 2

Seminars

Exam topics/questions

1. Tissues of the skin
   Chronic discoid lupus erythematosus (CDLE). Systemic lupus erythematosus (SLE)
2. Epidermis and barrier and reabsorption.
3. The glands of the skin.
   Protective function of the skin.
4. The dermis and subcutaneous layer.
5. Primary lesions of the skin.
7. Impetigo contagiosa.
8. Angulus infectious oris.
10. Tuberculosis of the skin.
17. Urticaria
18. The definition of allergy, early and delayed type hypersensitivity.
19. Quincke oedema and its management.
20. Eczema.
22. Pemphigus vulgaris.
23. Bullous pemphigoid.
24. Dermatomyositis.
25. Psoriasis.
26. Lichen ruber planus.
27. Erythema exsudativum multiforme.
28. Cc. spinocellulare.
29. Basalioma.
31. Melanoma malignum.
32. Gonorrhoea.
33. AIDS
34. Granulomatous skin lesions.
36. Seborrheic skin diseases (acne, rosacea).
37. The protective function of the skin.
38. Cutaneous precancerses
39. Diagnosis and treatment of syphilis.
40. The mycosal and the skin symptoms of early syphilis.
41. The signs of late syphilis.

Participants
Dr. Moezzi Mehdi (MOMSAAP.PTE)
OSKFL4 Prosthodontics 4

Course director: Dr. Gyula Szabó, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

6 credit • midterm grade • Clinical module • autumn semester • recommended semester: 9

Number of hours/semester: 0 lectures + 56 practices + 28 seminars = total of 84 hours
Headcount limitations (min-max.): min. 1 – max. 25
Prerequisites: OSKEND completed + OSKFL3 completed + OSKPD1 completed

Topic
The aim of this course is to present the indications and contraindications of fixed prosthodontics.

Conditions for acceptance of the semester
Making up for missed classes
Reading material
Lectures
Practices
Patient treatment according to actual patient needs
Seminars
Treatment plan construction and demonstration

Exam topics/questions
Participants
Dr. Marada Gyula (MAGFABO.PTE)
OSKFO2 ORTHODONTICS 2
Course director: DR. GYULA TAMÁS SZABÓ, assistant lecturer Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • final exam • Clinical module • autumn semester • recommended semester: 9
Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 1 – max. 20
Prerequisites: OSKEND completed + OSKFS1 completed + OSKGF2 completed

Topic

Conditions for acceptance of the semester
Before the exam a minimum test have to written.

Making up for missed classes
No possibility

Reading material

Lectures
1. Treatment possibilities in Class I malocclusion I
   Dr. Szabó Gyula Tamás
2. Treatment possibilities in Class I malocclusion II
   Dr. Szabó Gyula Tamás
3. Treatment possibilities in Class II malocclusion I
   Dr. Szabó Gyula Tamás
4. Treatment possibilities in Class II malocclusion II
   Dr. Szabó Gyula Tamás
5. Treatment possibilities in Class III malocclusion
   Dr. Szabó Gyula Tamás
6. Mechanism of fixed appliances
   Dr. Szabó Gyula Tamás
7. Multiband techniques
   Dr. Szabó Gyula Tamás
8. Extraoral appliances
   Dr. Szabó Gyula Tamás
9. Surgical operations in orthodontics
   Dr. Szabó Gyula Tamás
10. Treatment concepts of cleft lip and palate patients
    Dr. Szabó Gyula Tamás
11. Treatment concepts of adult patients
    Dr. Szabó Gyula Tamás
12. Interdisciplinary treatment concepts
    Dr. Szabó Gyula Tamás
13. Retention
    Dr. Szabó Gyula Tamás
14. Limits of orthodontic treatments
    Dr. Szabó Gyula Tamás

Practices
   Case reports, practicing of diagnostic steps

Seminars

Exam topics/questions
1. Treatment possibilities in Class I malocclusion
2. Treatment possibilities in Class II malocclusion
3. Treatment possibilities in Class III malocclusion
4. Multiband techniques
5. Mechanism of fixed appliances
6. Extraoral appliances
7. Treatment concepts of cleft lip and palate patients
8. Treatment concepts of adult patients
9. Interdisciplinary treatment concepts
10. Planning retention
11. Limits of orthodontic treatments
12. Making orthodontic diagnosis
13. Cephalometry
14. Development of permanent occlusion
15. Extraction in orthodontics
16. Orthognath surgery in orthodontics

Participants
Dr. Szabolcs Gyula Tamás (SZGFAOO.PTE)
OSKFUL OTOLARYNGOLOGY FOR DENTISTS

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

2 credit • semester exam • Clinical module • autumn semester • recommended semester: 9

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

Headcount limitations (min-max.): min. 1 – max. 0

Prerequisites: OSPPA2 completed

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

Making up for missed classes
There is no possibility

Reading material
Readings: Karmody: Otorhinolaryngology

Lectures

1. Introduction into Otorhinolaryngology
   Dr. Gerlinger Imre
2. Anatomy of the ear, physiology of hearing
   Dr. Gerlinger Imre
3. Audiometry
   Dr. Gerlinger Imre
4. Facial pain
   Dr. Gerlinger Imre
5. Diseases of the external ear
   Dr. Gerlinger Imre
6. Diseases of the middle ear
   Dr. Gerlinger Imre
7. Complications of suppurative otitis media
   Dr. Gerlinger Imre
8. Chronic cough, globus pharyngeus, catarrh
   Dr. Gerlinger Imre
9. Diseases of the nose and paranasal sinuses. Anosmia
   Dr. Gerlinger Imre
10. Diseases of the salivary glands. Facial nerve palsy
    Dr. Gerlinger Imre
11. Diseases of the oral cavity. Acute tonsillitis, chronic tonsillitis. Tonsillectomy Sore throat
    Dr. Gerlinger Imre
12. Benign tumours of the larynx. ENT TEN
    Dr. Gerlinger Imre
13. Malignant tumours of the larynx, hypopharynx. /TNM system /
    Dr. Gerlinger Imre
14. Vertigo, Tinnitus
    Dr. Gerlinger Imre

Practices

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

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
4. function of the facial nerve
5. signs of meningitis
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. Disoders of the inner ears, congenital malformations, hereditary deafness
14. Trauma to the inner ear
15. Otosclerosis
16. Fluid systems of the labyrinth. Pathological disorders. Ménière diseases
17. Acoustic tumours
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 nas)
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. Precancerous 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

Participants
Dr. Gerlinger Imre (GEIOAAK.PTE)
**OSKGYE PAEDIATRICS FOR STUDENTS OF DENTISTRY**

**Course director:**

**DR. DÉNES MOLNÁR, professor**

**Department of Paediatrics**

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**1 credit • semester exam • Clinical module • autumn semester • recommended semester: 9**

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

**Headcount limitations (min-max.):** min. 1 – max. 50

**Prerequisites:** OSPBPR completed + OSPKO2 completed

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**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 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.

**Making up for missed classes**

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

**Reading material**

The material of the lectures will be provided as handouts.

**Lectures**

1. Special problems of the neonatal period and infancy I.
   Dr. Decsi Tamás
2. Special problems of the neonatal period and infancy II.
   Dr. Decsi Tamás
3. Bacterial infectious diseases
   Dr. Decsi Tamás
4. Viral infectious diseases
   Dr. Decsi Tamás
5. Heart defects, respiratory diseases
   Dr. Decsi Tamás
6. Allergic diseases
   Dr. Decsi Tamás
7. Burns and intoxications
   Dr. Decsi Tamás
8. Endocrinological diseases
   Dr. Decsi Tamás
9. Disturbances of growth
   Dr. Decsi Tamás
10. Renal and urinary tract diseases
    Dr. Decsi Tamás
11. Malignant diseases
    Dr. Decsi Tamás
12. Gastroenterological diseases
    Dr. Decsi Tamás
13. Disturbances of hameostasis
    Dr. Decsi Tamás
14. Antibiotic treatment, treatment of fever
    Dr. Decsi Tamás

**Practices**

**Seminars**
Exam topics/questions
1. Full-term neonate, preterm neonate, small-for-gestational age neonate
2. Chronic health consequences of preterm birth
3. Breast feeding, formula feeding
4. Somatic and psychomotor development of the healthy infant
5. Principles of antibiotic treatment in childhood
6. Treatment of fever in childhood
7. Paediatric viral infections with skin symptoms
8. Viral hepatitis in children
9. Congenital heart defects
10. Acute inflammations of the upper respiratory tract
11. Urticaria, generalised allergic reaction, anaphylactic shock
12. Obstructive bronchitis, bronchial asthma
13. Burn injuries
14. Intoxications
15. Diabetes mellitus in children
16. Seizures in children
17. Disturbances of growth
18. Childhood obesity
19. Urinary tract infections
20. Nephrosis, nephritis
21. Common signs and symptoms of malignant diseases in children
22. Principles of the treatment of malignant diseases in children
23. Maldigestion, malabsorption
24. Acute enteritis in infants and children
25. Thrombocytopenia
26. Disturbances of haemostasis

Participants
OSKIGU  FORENSIC MEDICINE

Course director:   DR. ANDRÁS HUSZÁR, associate professor
Department of Forensic Medicine

1 credit • semester exam • Clinical module • autumn semester • recommended semester: 9

Number of hours/semester: 14 lectures + 0 practices + 0 seminars = total of 14 hours
Headcount limitations (min-max.): min. 3 – max. 0
Prerequisites: OSPPA2 completed

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
Absences accepted according to the exam rules.
Making up for missed classes
Individual agreement.

Reading material

Lectures
1 Introduction
   Dr. Sipos Katalin
2 Death investigations.
   Dr. Sipos Katalin
3 Causes of death.
   Dr. Simon Gábor
4 Sudden, unexpected death.
   Dr. Simon Gábor
5 Motor vehicle injuries.
   Dr. Simon Gábor
6 Suffocation and asphyxia.
   Dr. Simon Gábor
7 Vital signs and reactions.
   Dr. Sipos Katalin
8 Wound and injuries.
   Dr. Sipos Katalin
9 Head injuries.
   Dr. Simon Gábor
10 Human identification.
    Dr. Huszár András
11 Mass disaster, skeletal remains.
    Dr. Angyal Miklós
12 Effects of ethanol.
    Dr. Pörpáczy Zoltán
13 Toxicology.
    Dr. Pörpáczy Zoltán
14 Autopsy case demonstration.
    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.
7. Forensic traumatology.
8. Types of injuries.
10. Injuries of the mouth and the teeth.
11. Injuries of the skull.
12. Bite wounds.
13. Injuries caused by traffic accidents.
15. Sex and age determination with dental methods.
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.

Participants
Dr. Angyal Miklós (ANMGAB.A.JPTE), Dr. Kricskovics Antal (KRAHAAO.PTE), Dr. Porpáczy Zoltán (POZHAAE.PTE), Dr. Simon Gábor (SIGFACO.PTE), Dr. Sipos Katalin (SIKMAAO.PTE)
**OSKKF1 OPERATIVE DENTISTRY - OPERATIVE DENTISTRY 1**

<table>
<thead>
<tr>
<th>Course director:</th>
<th>DR. EDINA LEMPEL, assistant lecturer</th>
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<td>Dept. of Dentistry, Oral-, Maxillofacial Surgery</td>
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<th>2 credit • midsemester grade • Clinical module • autumn semester • recommended semester: 9</th>
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<td>Number of hours/semester: 0 lectures + 28 practices + 0 seminars = total of 28 hours</td>
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<td>Headcount limitations (min-max.): min. 1 – max. 20</td>
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<tr>
<td>Prerequisites: OSKCAR completed + OSKEND completed + OSKGF2 completed</td>
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**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.
A score-system is used for the acceptance of the semester.
The students get some score for every operation. The total score should be collected is 21.
The score-system is demonstrated on the first practice.

**Making up for missed classes**
none

**Reading material**
John R. Sturdevant: Art and Science of Operative Dentistry
Stephen Cohen: Pathways of the pulp

**Lectures**

**Practices**
Conservative dental treatment of recalled patients.

**Seminars**

**Exam topics/questions**

**Participants**
Dr. Lempel Edina (LEEFABO.PTE)
OSKMNEN PUBLIC HEALTH
Course director: DR. ISTVÁN EMBER, professor
Department of Public Health Medicine

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 9

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

Headcount limitations (min-max.): min. 1 – max. 0

Prerequisites: OSPK02 completed + OSPM11 completed

Topic
The subject Public health represents the preventive side of the medicine. The subject deals with the primary, secondary, tertiary prevention of the most important diseases in our time using the conventional and the molecular/genomical epidemiology. The aim of the subject is to demonstrate the process from the health to the disease and to demonstrate the preventive possibilities on individual and community level.

Conditions for acceptance of the semester
Absence of 2 x 2 hours is acceptable. During the oral exam two questions has to be answered, the mean of the two note (both should reach at least satisfactory) will give the final note.

Making up for missed classes

Reading material

Lectures
1  Aim of Public health. History of public health
   Dr. Ember István
2  Morbidity and mortality statistics in Europe.
   Dr. Ember István
3  Epidemiology. Epidemiological studies.
   Dr. Ember István
4  Methods of demography
   Dr. Ember István
5  Levels of prevention. Screening
   Dr. Ember István
6  Public health importance of oral diseases. Epidemiology and prevention of caries. Role of micronutrients.
   Dr. Németh Árpád
7  Water hygiene
   Dr. Ember István
8  Air hygiene
   Dr. Ember István
9  Healthy nutrition
   Dr. Ember István
10 The principles of the epidemiology of infectious diseases
    Dr. Ember István
11 Practical measures to control infectious diseases
    Dr. Ember István
12 Vaccination. Nosocomial diseases
    Dr. Ember István
13 Health effects of noise and vibration, dusts, chemicals
    Dr. Tibold Antal
14 Occupational medicine in the dental praxis
    Dr. Tibold Antal
Practices

1. Tasks and operation of public health institutions. Definition of health. Health status influencing environmental, social and phycological factors.
2. Most important non-communicable diseases
3. Healthy nutrition. Consequences of over-nutrition, disproportional intake of nutrients. Malnutrition
5. Food borne illnesses (of biological/chemical origin). Toxicoinfections
6. Visit at the Central Sterilization Department (Hospital hygiene, sterilisation, desinfection)
7. Viral hepatitis, Lyme-disease, AIDS
8. Epidemiology of cancers
9. Epidemiology and prevention of oral cancer. Screening
11. Public health importance of oral diseases. Epidemiology and prevention of caries. Role of micronutrients. II.
14. Ergonomy in dentistry

Seminars

Exam topics/questions

Questions for the exam:
1. Tasks and operation of public health institutions. WHO
2. Definition of health. Health status influencing environmental, social and phycological factors.
3. Methods of demography. Basic measures of demography
5. Definition of epidemiology. Epidemiological studies.
7. Health effects of air pollution.
8. Health effects of soil pollution.
9. Water resources, water demand, hydrological cycle. Drinking water qualification, supply and treatment
10. Water born epidemics. Health effects of water pollution (mercury, asbestos fibres, cyanide, arsenic)
12. Etiology and prevention of occupational diseases
13. Occupational health aspects in dentistry
14. Health effects of noise and vibration, dusts, chemicals
15. Health effects of ionizing and non-ionizing radiations. Methods of prevention
16. Healthy nutrition
17. Consequences of over-nutrition, disproportional intake of nutrients. Malnutrition
18. Food borne illnesses (of biological/chemical origin). Toxicoinfections
20. Oral hygiene
21. Epidemiology of cancers
22. Primary, secondary, tertiary prevention of oral cancer
23. Chemoprevention
24. The principles of the epidemiology of infectious diseases. The classification of infectious diseases. Primary and secondary factors of the outbreaks
25. Practical measures to control infectious diseases
26. Vaccination
27. Epidemiology and prevention of viral hepatitis infections
28. Epidemiology and prevention of nosocomial diseases

Participants

Dr. Berényi Károly (BEKFABO.PTE), Dr. Gombos Katalin (GOKFAAO.PTE), Dr. Horváth-Sarródi Andrea (HOAFALO.PTE), Dr. Németh Árpád (NEAHAAO.PTE)
Course director: DR. ÁGNEs BÁN, assistant professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • semester exam • Clinical module • autumn semester • recommended semester: 9

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 3 – max. 0
Prerequisites: OSKGT2 completed + OSKPD1 completed + OSKSZ2 completed

Topic
Recognisation and differential diagnosis of the diseases of the oral mucosa and gingiva

Conditions for acceptance of the semester
Attending the classes, according to the rules of the „Code of Studies and Examinations”. Assumption of the exam is the acceptance of the practical requirements.

Making up for missed classes
No chance.

Reading material

Lectures
1. Physical, chemical and iatrogenic lesions of the oral mucosa
   Dr. Tóth Vilmos
2. Primary ulcers of oral mucosa.
   Dr. Tóth Vilmos
   Dr. Tóth Vilmos
4. Pre-malignant 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
   Dr. Tóth Vilmos
   Dr. Tóth Vilmos
10. Oral symptoms of metabolic and neuroendocrin system diseases, diet habits and vitamin deficiencies.
    Dr. Tóth Vilmos
    Dr. Tóth Vilmos
12. Diseases of the tongue and lips
    Dr. Tóth Vilmos
13. Immunological diseases.
    Dr. Tóth Vilmos
    Dr. Tóth Vilmos

Practices
Patient treatment

Seminars

Exam topics/questions
1. Gingivostomatitis Herpetica.
3. Clinical types of candidosis.
4. Treatment of candidosis.
5. Inflammatory diseases of the lip.
11. Oral symptoms diseases of red the blood cells producing system.
15. The antibacterial effect of the saliva. Secretory IgA.
16. Erythema exsudativum multiforme.
17. Pemphigus, pemphigoid.
18. Mucosal injuries caused by chemical materials or drugs.
20. Physical injuries of the oral mucosa.
22. The clinical anatomy and histology of the salivary glands.
24. The clinical anatomy and histology of the oral mucosa.
25. Leukoplakia, leukokeratosis nicotina palati.
26. Lichen oris.

Participants
Dr. Tóth Vilmos (TOVLAO.PTE), Millei László
OSKSZ3 ORAL SURGERY 3
Course director: DR. LAJOS OLASZ, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • midssemester grade • Clinical module • autumn semester • recommended semester: 9

Number of hours/semester: 14 lectures + 28 practices + 0 seminars = total of 42 hours
Headcount limitations (min-max.): min. 1 – max. 25
Prerequisites: OSKGT2 completed + OSKPR2 parallel + OSKSZ2 completed

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
Written tests and practice notes.

Making up for missed classes
No possibility.

Reading material

Lectures
1 The general principles of maxillofacial fractures treatment
Dr. Olasz Lajos
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 Discussion
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
Patient treatment in the clinical practice

Seminars

Exam topics/questions

Participants
Dr. Gelencsér Gábor (GELADOB.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZJFACO.PTE)
OSKSZE OPTHALMOLOGY

Course director: DR. ZSOLT BIRÓ, professor Department of Ophthalmology

2 credit • semester exam • Clinical module • autumn semester • recommended semester: 9

Number of hours/semester: 14 lectures + 14 practices + 0 seminars = total of 28 hours
Headcount limitations (min-max.): min. 1 – max. 15
Prerequisites: OSPPA2 completed

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

Conditions for acceptance of the semester
Making up for missed classes
Reading material

Lectures
1. Introduction. The globe (embryology, anatomy, growth and development)
   Dr. Biró Zsolt
2. The eyelids. The lacrimal apparatus
   Dr. Pámer Zsuzsanna
3. The conjunctiva. Allergic eye diseases
   Dr. Pámer Zsuzsanna
4. The cornea. The sclera
   Dr. Pámer Zsuzsanna
5. The uveal tract: iris, ciliary body and choroid. Intraocular inflammation
   Dr. Szabó Ilona
6. The lens
   Dr. Biró Zsolt
7. The glaucoma. Classification, diagnosis, pathogenesis and treatments
   Dr. Ajtony Csilla
8. The vitreous and the vitreoretinal diseases. Retinal detachment
   Dr. Szíjjártó Zsuzsanna
9. Retina I. Vascular abnormalities, retinopathies
   Dr. Pámer Zsuzsanna
10. Retina II. Central and peripheral retinal dystrophies and degenerations
    Dr. Pámer Zsuzsanna
11. Neuroophthalmology (the optic nerve, the visual pathway, the pupil) Electrophysiology (ERG, EOG, VEP)
    Dr. Pámer Zsuzsanna
12. Intraocular tumours. The orbit
    Dr. Szabó Ilona
13. Strabismus. Nystagmus
    Dr. Szabó Ilona
    Dr. Biró Zsolt

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
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 retinopathy
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 conjunctiva
    B) Iritis and iridocyclitis, 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 diagnose by a dentist?
Participants
Dr. Ajtony Csilla (AJCAA0A.PTE), Dr. Balla Zsolt, Dr. Biró Zsolt (BIZMAAO.PTE), Dr. Pámer Zsuzsanna (PAZMAAO.PTE), Dr. Szíjjártó Zsuzsanna (SZZAA0A.PTE), Szabó I. dr.
OSKSZN Obstetrics and Gynaecology

Course director: Dr. István Drozgýik, associate professor
Department of Obstetrics and Gynaecology

1 credit • midsemester grade • Clinical module • autumn semester • recommended semester: 9
Number of hours/semester: 14 lectures + 0 practices + 0 seminars = total of 14 hours
Headcount limitations (min-max.): min. 5 – max. 20
Prerequisites: OSKsz2 completed

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
Making up for missed classes
Absence not more than 20 % is accepted.

Reading material
Lecturers’ handout.

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.

Participants
Dr. Bódis József (BOJHAAE.PTE), Dr. Csermely Tamás (CSTGABO.PTE), Dr. Ertl Tibor (ERTMAAO.PTE), Dr. Gőcze Péter (GOPMAAO.PTE), Dr. Kovács Kálmán (KOKFAFO.PTE), Dr. Tamás Péter (TAPMAAO.PTE), Dr. Vizer Miklós (VIMRAAO.PTE)
**OSKFL5  PROSTHODONTICS 5**

**Course director:**
**DR. GYULA SZABÓ, professor**  
Dept. of Dentistry, Oral-, Maxillofacial Surgery

**6 credit • final exam • Clinical module • spring semester • recommended semester: 10**

Number of hours/semester: 12 lectures + 48 practices + 24 seminars = total of 84 hours  
Headcount limitations (min-max.): min. 2 – max. 20  
Prerequisites: OSKFL4 completed + OSKFS2 completed + OSKPR2 completed

**Topic**

The main aim of this course is to inform the students how we can adapt the general principles of clinical prosthodontics to 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**

Making up for missed classes

**Reading material**

**Lectures**

1. Prosthodontics Around the World  
   Dr. Szabó Gyula  
2. Prosthetic Epidemiology  
   Dr. Szabó Gyula  
3. Teeth, Tooth Loss and Prosthetic Appliances  
   Dr. Szabó Gyula  
4. The Pre-Edentulous Patient  
   Dr. Szabó Gyula Tamás  
5. The Edentulous Patient  
   Dr. Szabó Gyula  
6. Geriatric Consideration in Prosthetic Dentistry  
   Dr. Szabó Gyula  
7. Temporomandibular Disorders and the Need for Prosthetic Treatment  
   Dr. Szabó Gyula  
8. Masticatory Ability and the Need for Prosthetic Treatment  
   Dr. Szabó Gyula  
9. Decision-Making in Prosthodontics  
   Dr. Szabó Gyula  
10. Principles of Prosthetic Treatment Planning  
   Dr. Szabó Gyula  
11. Prognosis for Prosthodontic Treatment of Partially Edentulous Patient  
   Dr. Szabó Gyula  
12. Maxillofacial Prosthetics  
   Dr. Szabó Gyula

**Practices**

Patient treatment according to actual patient needs

**Seminars**

Treatment plan construction and demonstration

**Exam topics/questions**

1. a. Functions of human dentition, etiological factors of toothloss, consequences of toothloss, epidemiology of toothloss  
   b. Dental stone  
   c. Gold and ceramic inlays, onlays, partial crowns, technical aspects
2. a. Requirements of prosthesis, effectivity of chewing, concept of shortened dental arch.  
   b. Elastomer impression materials  
   c. Fabrication of models for crown and bridge works
3. a. Treatment planning of fixed prosthesis, technological alternatives, prognosis of crown and bridge therapy  
   b. Oroplastic impression materials  
   c. Requirements and control aspects of framework in crown and bridge works
4. a. Post and core restorations, aspects of structural resistance  
   b. Cinkoxid-eugenol impression materials and provisional cements  
   c. Indications of full cast crown restoration and its technical procedures  
5. a. Indications of crown restorations, main guidelines of their treatment planning  
   b. Impression procedures in partially edentulousness  
   c. Preparation steps of partial crown  
6. a. Splinting remaining teeth with fix and removable methods, indications and contraindications  
   b. Alternatives in model fabrication, indications  
   c. Technologies of conventional and up-to-date jacket crowns, preparation and technical requirements  
7. a. Indications, treatment planning and main guidelines of therapy with removable partial dentures  
   b. Restorations within clinical crown, provisional and long-term procedures  
   c. Management of prepared teeth, preservation of vitality and parodontal health  
8. a. Clinical aspects of clamp design, decision making in treatment planning  
   b. Copy techniques for model procedures in fixed removable dentures  
   c. Post and core procedures in dental office  
9. a. Pre-edentulous state, treatment planning  
   b. Dental base and veneer materials and technologies  
   c. Build-up and restorative procedures on prepared teeth  
10. a. Guidelines and appliances used in maxillo-facial prosthetics  
    b. Development in procedures of ceramic technologies in dental laboratory  
    c. Laboratory steps of crown and bridge works in wax-lost techniques  
11. a. Indications of telecopic retention, treatment planning and maintenance  
    b. Luting cements  
    c. Technology of veneered crown in single or bridge construction  
12. a. Diagnostic aspects, therapy and treatment planning in cases of deep bite  
    b. Polishing materials in surface treatment of fixed and removable prosthesis  
    c. Design and technology of casted clamps  
13. a. Comparative evaluation of fixed and removable partial dentures  
    b. Instrumentation of hard dental tissue preparation  
    c. Technical steps of classical Jacket crown fabrication in laboratory  
14. a. Influencial factors in treatment planning of partial edentulousness  
    b. Biocompatibility of materials used in prosthodontics  
    c. Second impression in complete upper denture  
15. a. Pre-edentulous state and guideline of selection in remaining teeth  
    b. Physical, mechanical and biological properties of dental alloys  
    c. Classification of individual trays and techniques of their fabrication  
16. a. Planning and procedure in production of immediate prostheses  
    b. Alloys for PFM crowns, essential guidelines in indications, complications  
    c. Treatment of stomatognathic malformancies  
17. a. Treatment planning in implant prosthodontics, especially for cases of one tooth loss  
    b. Fabrication of models in fix and removable prosthodontics  
    c. Treatment steps in fabrication of complete removable dentures  
18. a. Treatment planning in partially edentulousness of Kennedy Class III  
    b. Essential guidelines in fabrication of partial removable dentures  
    c. Repair procedures of denture base  
19. a. Treatment planning in cases of extended Kennedy Class III  
    b. Technical procedures of veneered full crowns  
    c. Repair in fracture of clamps and after extraction place in dental office and laboratory  
20. a. Treatment plan and protocols in cases of Kennedy Class I  
    b. Records of centric relation and occlusion in partial edentulousness  
    c. Retentive factors of complete removable dentures  
21. a. Diagnostic procedures in implant prosthodontics  
    b. Pattern fabrication from wax and resin, their use in fixed prosthodontics  
    c. Requirements of complete denture and construction parts of removable dentures  
22. a. Treatment plan and protocols in cases of Kennedy Class modification I or II  
    b. Relining procedures of RPD in laboratory  
    c. Gnathological diagnostic procedures in parafuncions
23. a. Treatment planning and protocols in pre-edentulous state
   b. Diagnostic procedures and treatment planning in severe paraodontal cases
   c. Technical procedures in fabrication of full crowns
24. a. Treatment planning and protocols in pre-edentulous state where in one functional axis is in function
   b. Fabrication of lower and upper immediate dentures
   c. Denture repair by using self curing acrylics
25. a. Review of different record in CR and CO from the smallest to the total tooth loss
   b. Technical procedures in fabrication of metal frameworks (fixed or removable prosthesis)
   c. Relining technique in dental office
26. a. Maxillo-facial prosthodontics
   b. General aspects in behaviour of dental alloys and their indications
   c. Second impression for complete removable denture for lower jaw
27. a. Steps in fabrication of complete removable dentures
   b. Precision attachments in retention of removable dentures
   c. Indications and techniques of acrylic crowns
28. a. TMJ disorders and need of prosthetic therapy
   b. Casting procedures in ceramic crown technologies
   c. Soft tissue management for fix prostheses
29. a. Prevention guidelines in management of removable partial dentures
   b. Indications of gold alloys
   c. Mounting of models in articulators
30. a. Prosthetic aspects of aging
   b. Use of non-precious metals in prosthodontics
   c. Model fabrication in implant dentistry

Participants
Dr. Marada Gyula (MAGFABO.PTE)
**OSKGR3  PAEDIATRIC DENTISTRY 3**

*Course director: Dr. Ildikó Szántó, clinical specialist*

*Dept. of Dentistry, Oral-, Maxillofacial Surgery*

**2 credit • final exam • Clinical module • spring semester • recommended semester: 10**

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

**Headcount limitations (min-max.):** min. 2 – max. 25

**Prerequisites:** OSKGF2 completed

**Topic**
This semester is a summary of all dental studies of pediatric dentistry. Case reports, evidence based studies and practical information will be done. Emergency care, hospital care, complex therapies and any more information beside the dentistry.

**Conditions for acceptance of the semester**
all practices

**Making up for missed classes**
none

**Reading material**
lectures

**Lectures**

1. The children’s rights. The UNO Declaration
   Dr. Szántó Ildikó
2. Treatment in general anaesthesia. Sedative medication.
   Dr. Szántó Ildikó
3. Endodontic considerations of pediatric dentistry. Case reports
   Dr. Szántó Ildikó
   Dr. Szántó Ildikó
   Dr. Szántó Ildikó
   Dr. Szántó Ildikó
7. Gingival and periodontal considerations of pediatric dentistry.
   Dr. Szántó Ildikó
8. Developmental diseases
   Dr. Szántó Ildikó
9. General practitioning of pediatric dentistry
   Dr. Szántó Ildikó
10. Oropharyngeal diseases
    Dr. Szántó Ildikó
11. Dermatological and allergic diseases
    Dr. Szántó Ildikó
12. Consultation
    Dr. Szántó Ildikó

**Practices**
Annual check. Emergency care.

**Seminars**

**Exam topics/questions**

3. Caries risk assessment
4. Caries activity tests
5. Diagnostic procedure of emergency trauma cases.
6. Diagnostic procedure and treatment of emergency inflammatory cases (periostitis)
7. Diseases of mucous membrane
8. Periodontal diseases
9. Symptoms of infective systemic diseases in childhood
10. Oral symptoms of systemic diseases in childhood
12. Dietary guidelines in caries prevention
13. X-rays and ultrasound diagnostic procedures
14. Local pain killers
15. Systemic pain killers, sedation, anaesthesia
16. Pain killer medication
17. Antibiotic therapy
18. The forms of mental retardation. The care of these patients.
19. The care of physically retarded and autism patients
20. Caries diagnosis and treatment in primary incisors
21. Caries diagnosis and treatment in primary molars
22. Caries treatment in newly erupted teeth
23. Pulpotomy,
24. Pulpectomy
25. Apexification in traumatized tooth, apexogenesis
26. Apexification in inflamed tooth
27. Treatment of periodontitis
28. Treatment of fractured primary teeth
29. Treatment of fractured newly erupted permanent teeth
30. The origin of tooth injuries in childhood, emergency care
31. Treatment of luxation in primary dentition
32. Treatment of luxation in permanent dentition
33. Fixed dentures in childhood
34. Removable dentures in childhood
35. Treatment of gingival diseases
36. Treatment in anaesthesia
37. Dental materials in childhood
38. Fissure sealing, fluoridation

Participants
Dr. Sándor Balázs Attila (SABFAA.T.JPTE), Dr. Szántó Ildikó (SZINAJP.PTE)
OSKKZ2  OPERATIVE DENTISTRY - OPERATIVE DENTISTRY 2

Course director: DR. EDINA LEMPEL, assistant lecturer  
Dept. of Dentistry, Oral-, Maxillofacial Surgery

4 credit • final exam • Clinical module • spring semester • recommended semester: 10

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

Headcount limitations (min-max.): min. 1 – max. 20

Prerequisites: OSKFL4 completed + OSKKF1 completed + OSKPR2 completed

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.
A score-system is used for the acceptance of the semester.
The students get some score for every operation. The total score should be collected is 21.
The score-system is demonstrated on the first practice.

Making up for missed classes
none

Reading material
John R. Sturdevant: Art and Science of Operative Dentistry
Stephen Cohen: Pathways of the Pulp

Lectures
1  Diagnosis and treatment of root caries.  
Dr. Lempel Edina
2  Bleeching.  
Dr. Lempel Edina
3  Porcelain inlays, veneers and their cementing.  
Dr. Lempel Edina
4  Restoring of endodontically treated teeth.  
Dr. Lempel Edina
5  Restoring of endodontically treated teeth. Prefabricated intrapulpal posts.  
Dr. Lempel Edina
6  Diagnosis and therapy of injured teeth.  
Dr. Lempel Edina
7  Endodontic retreatment.  
Dr. Lempel Edina
8  Surgical treatment in endodontics.  
Dr. Lempel Edina
9  Endodontic treatment of geriatric patients.  
Dr. Lempel Edina
10 Endodontics in pediatric dentistry.  
Dr. Lempel Edina
11 Medicines in operative dentistry.  
Dr. Lempel Edina
12 Problem solving: Consultation.  
Dr. Lempel Edina

Practices
Conservative dental treatment of recalled patients.

Seminars

Exam topics/questions
1.a. Instruments for cavity preparing
1.b. Hystopathology of enamel-caries
2.a. Class I and V cavity preparing for plastic filling
2.b. Biochemistry of the plaque. De- and remineralization of the enamel
3.a. Class II cavity preparing for plastic filling
3.b. Hystopathology of dentin-caries
4.a. Class III and IV cavity preparing for plastic filling
4.b. Fluorids, used alone or aggroup prophylaxis
5.a. Metallic restorative materials
5.b. Development and pathology of caries
6.a. Composites
6.b. Diagnosis and symptoms of caries
7.a. Cements, resins, guttapercha
7.b. Microbiology of caries
8.a. Amalgam filling
8.b. Caries and diet
9.a. Indications of composite filling
10.a. Control of trauma, moisture and pain
10.b. Aetiology of caries
11.a. Cavity preparing for metal inlay
11.b. Activity of caries. Caries-activity tests
12.a. Direct, indirect and combined methods for metal inlay fabrication
12.b. Influence of age, sex and saliva on caries
13.a. Sealers. Temporary fillings
13.b. Immunology of caries
14.a. Direct and indirect pulp capping. Basing and lining of cavities
14.b. Prevention of caries by enhancing the resistincy of the tooth
15.a. Anatomy of the pulp
15.b. Physical and chemical control of the plaque
16.a. Clinical diagnosis of the pulp diseases
16.b. Prevention of caries by diet and sugar substitutives
17.a. Diagnosis of periodontitis, periostitis, odontogen osteomyelits. Dental focus
17.b. Exposure caries prophylaxis
18.a. Root canal preparation for root canal filling
18.b. Natural and artificial origin of fluorides. The metabolism of fluorides
19.a. Instruments for root canal preparing and filling
19.b. Cariostatic mechanism of fluorides
20.a. Disinfection, irrigation of the root canal. Materials for root canal filling
20.b. Local application of fluorides
21.a. Vitalaextirpation, vitalamputation
21.b. Influence of genetic, habit, sociality and urbanization on caries
22.a. Mortalextirpation. Treatment of gangraena pulpaec
22.b. Fluoridation of water and salt
23.a. Root canal filling techniques
23.b. Posteruptive prophylaxis of caries
24.a. Indications of endodontic surgery
24.b. The role of dentist in caries prevention. Prescription of fluorides
25.a. Bleeching. Retreatment of endodontically treated teeth
25.b. Preruptive prophylaxis of caries

Participants
Dr. Lempel Edina (LEEFABO.PTE)
### OSKPR3 PARODONTOLOGY 3 - PARODONTOLOGY

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

<table>
<thead>
<tr>
<th>3 credit • final exam • Clinical module • spring semester • recommended semester: 10</th>
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<tr>
<td><strong>Number of hours/semester:</strong> 12 lectures + 36 practices + 0 seminars = total of 48 hours</td>
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<tr>
<td><strong>Headcount limitations (min-max.):</strong> min. 3 – max. 0</td>
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<tr>
<td><strong>Prerequisites:</strong> OSKFL4 completed + OSKKF1 completed + OSKPR2 completed</td>
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**Topic**

Treatment planning in the causative and surgical therapy in periodontology and implant dentistry. Practical usage of the basic treatment in periodontology.

**Conditions for acceptance of the semester**

Attending the classes, according to the rules of the „Code of Studies and Examinations”. Assumption of the exam is the acceptance of the practical requirements.

**Making up for missed classes**

No chance.

**Reading material**

**Lectures**

1. Periodontal surgical procedures I (ENAP, gingivectomy, gingivoplasty, Neumann-Wiedmann flap).  
   Dr. Tóth Vilmos
2. Periodontal surgical procedures II (Mucogingival surgery, free gingival flap transplantation).  
   Dr. Tóth Vilmos
3. Periodontal surgical procedures III (Regenerative surgery, GTR techniques, bone replacement 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 (planning on implants and teeth).  
   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
    Dr. Tóth Vilmos

**Practices**

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 process.  
   b. Clinical types of candidosis.
4. a. Calculus.  
   b. Treatment of candidosis.
5. a. Acquired pellicle, debris, materia alba.  
   b. Inflammations of the lips.
6. a. The role of bacteria in the aetiology of the periodontal inflammation.
   b. Morphogenic disorders of the lips. Quincke oedema.
7. a. Local factors with natural origin in the etiology of periodontal diseases
   b. Cheilitis angularis. Furunculus et Erysipelas labii.
8. a. Local factors with iatrogen origin in the etiology of periodontal diseases
   b. Morphogenic disorders of the tongue. Lingua geographica.
9. a. Cantilever and other efforts in the etiology of periodontal diseases
10. a. Pathomechanism and histology of periodontal inflammation.
    b. Oral symptoms of leukaemias, agranulocytosis.
11. a. Signs of gingivitis, therapy (except ANUG)
    b. Oral symptoms of red blood cells producing system diseases.
    b. Oral symptoms of vitamin deficiencies.
    b. Oral symptom of neuroendocrin system diseases.
    b. Oral symptom of blood coagulopathies.
15. a. Periodontal abscess.
    b. The antibacterial effect of the saliva. Secretoric IgA.
    b. Erythema exudativum 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. Aphthosis recidivans.
20. a. Scaling and polishing.
    b. Physical injuries of the oral mucosa.
    b. Chemical injuries of the oral mucosa.
    b. The clinical anatomy and histology of the salivary glands.
23. a. Correction of occlusion, splinting.
    b. Anatomy of the tongue. (taste sensation).
24. a. Epidemiology of periodontal diseases, indexes
    b. The clinical anatomy and histology of the oral mucosa.
    b. Leukoplakia, leukokeratosisi nicotina palati.
26. a. Treatment of periodontal pockets with closed curettage.
    b. Lichen oris

Participants
Dr. Tóth Vilmos (TOVLAO.PTE), Millei László
OSKSS4 ORAL SURGERY 4

Course director: DR. LAJOS OLASZ, professor
Dept. of Dentistry, Oral-, Maxillofacial Surgery

3 credit • final exam • Clinical module • spring semester • recommended semester: 10

Number of hours/semester: 12 lectures + 36 practices + 0 seminars = total of 48 hours
Headcount limitations (min-max.): min. 1 – max. 25
Prerequisites: OSKFUL completed + OSKSZ3 completed + OSKSZE completed

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

Conditions for acceptance of the semester
Making up for missed classes
No possibility.

Reading material

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. Discussion
   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
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

Participants
Dr. Gelencsér Gábor (GELADOB.PTE), Dr. Orsi Enikő (OREFABO.PTE), Dr. Szalma József (SZIFACO.PTE)