

The University of Pécs Medical School

DENTISTRY Major

STUDY PROGRAM 2010/2011

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.): **1 – 100**

Prerequisites: **see in the recommended curricula!**

Topic

During the course the following disciplines of internal medicine will be discussed: pulmonology, nephrology, hypertension, 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).
2. Hypertension (complications, treatment).
3. Diabetes mellitus (types, symptoms, diagnostics, complications).
4. Diabetes mellitus (treatment). Metabolic diseases.
5. Functions of the kidney. Glomerular and tubulointerstitial diseases.
6. Urinary tract infectious. Vascular kidney diseases.
7. Immunodeficient states, AIDS
8. Inflammatory diseases of the lung.(Pneumonia. Bronchopneumonia. Lung abscess.) Diseases of the pleura.
9. Asthma.
10. Chronic obstructive pulmonary diseases.
11. Tuberculosis. Lung cancer .
12. Anaphylaxis. Allergic diseases.
13. Autoimmun diseases. Systemic lupus erythematosus. Rheumatid arthritis. Systemic sclerosis. Sjögren syndrome.
14. Acute and chronic renal failure.

Practices

1-28. The themes of the practices follow the themes of the lectures.

Seminars

Exam topics/questions

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.): **3 – 25**

Prerequisites: **see in the recommended curricula!**

Topic

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
2. Biological behavior of the teeth
3. Physiological role of the saliva in caries protection
4. Composition of dental plaque, diagnostic procedures of plaque accumulation
5. Role of Streptococci, Actinomycetes in plaque and caries development, role of the pulp during treatments
6. Caries diagnostics
7. Classification of caries, process of caries
8. The role of nutrition in caries formation
9. Caries management
10. Caries epidemiology, caries activity tests
11. The pathology and histopathology of caries
12. Fissure sealing
13. Caries prevention
14. Mechanism of fluoride's effect

Practices

Seminars

Exam topics/questions

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.): **–**

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

Practices

Seminars

Exam topics/questions

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.): **2 – 0**

Prerequisites: **see in the recommended curricula!**

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 'Code of Studies and examinations'.

Making up for missed classes

Reading material

Lectures

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

Practices

1. 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

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.): **3 – 25**

Prerequisites: **see in the recommended curricula!**

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. Embriology
2. Diseases of embriologic development
3. Dental examination of children
4. Caries diagnostic procedures of primary teeth
5. Caries diagnostic procedures of high risk patients
6. Caries diagnostic procedures of new permanent teeth
7. Pulp diseases
8. Diagnosis of periosteal diseases
9. Injury of oral soft tissues in childhood
10. Injury of teeth in childhood
11. Diseases of oral mucous membrane
12. Diagnosis of gingival diseases
13. Oral hygienic and diet advices
14. Systemic and local fluoridation

Practices

- 1-28. Dental examination of children

Seminars

Exam topics/questions

1. Dental examination of children
2. Caries diagnostic procedure in deciduous dentition
3. Caries diagnostic procedure in newly erupted teeth
4. Risk assesment
5. Caries diagnostic procedure in high risk patients – caries activity tests
6. Pulp diseases
7. Periostitis
8. Injured teeth
9. luxation
10. Soft tissue injuries
11. Emergency care in pediatric dentistry
12. Diseases in mucous membrane
13. Periodontal diseases
14. Gingival diseases
15. Symptoms of systemic diseases in childhood
16. education of oral hygiene
17. Dietary guidelines
18. Annual checking, indexes
19. Dental educational programmes
20. Local fluoridation
21. Systemic fluoridation

22. Toxicity of fluorides
23. Primary, secondary and tertiary prevention
24. Fissure sealing

OSKRNA 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.): **2 – 24**

Prerequisites: **see in the recommended curricula!**

Topic

Different concepts of occlusion, movement of temporomandibular joint and occlusal surface of molars and premolars.

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

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

Test

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.): **2 – 30**

Prerequisites: **see in the recommended curricula!**

Topic

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

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

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

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

Rang, Dale, Ritter, Moore: Pharmacology, 6th edition, Elsevier Churchill Livingstone, 2007, ISBN 0443069115

B. G. Katzung (ed.): Basic and Clinical Pharmacology, 10th edition, Lange Medical Books/McGraw-Hill, 2007, ISBN 0071451536

Lectures

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

Practices

Seminars

1. Introduction: pharmacology and related subjects, drug names; drug compendia; prescription writing; drug development (E. Pinter)
2. Drug formulations (E. Pinter)
3. Drug formulations (E. Pinter)
4. Basic mechanisms of drug actions. Characterization of agonist-receptor interaction I. (Zs. Helyes)
5. Basic mechanisms of drug actions. Characterization of agonist-receptor interaction I. (Zs. Helyes)
6. Characterization of agonist-receptor interaction II: Mechanisms of drug antagonisms, signal transduction pathways of drug receptors, tachyphylaxis and tolerance to drugs (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. Basic mechanisms and quantitative aspects of pharmacokinetics (B. Nemeti)

9. Basic mechanisms and quantitative aspects of pharmacokinetics (B. Nemeti)
10. Histamine, H1 and H2 receptor antagonists (E. Pinter)
11. Histamine, H1 and H2 receptor antagonists (E. Pinter)
12. Serotonin, serotonin receptor agonists and antagonists (Zs. Helyes)
13. Serotonin, serotonin receptor agonists and antagonists (Zs. Helyes)
14. Diuretic drugs (E. Pinter)
15. Introduction: pharmacology and related subjects, drug names; drug compendia; prescription writing; drug development (E. Pinter)
16. Diuretic drugs (E. Pinter)
17. Antihypertensive drugs (E. Pinter)
18. Antihypertensive drugs (E. Pinter)
19. Drugs affecting haemopoiesis (Zs. Helyes)
20. Drugs affecting haemopoiesis (Zs. Helyes)
21. Drugs affecting the coagulation system (E. Pinter)
22. Drugs affecting the coagulation system (E. Pinter)
23. Group discussion on the autonomic nervous system (E. Pinter)
24. Group discussion on the autonomic nervous system (E. Pinter)
25. Group discussion on the cardiovascular system (Zs. Helyes)
26. Group discussion on the cardiovascular system (Zs. Helyes)
27. Eicosanoids, drugs acting on smooth muscle (Zs. Helyes)
28. Eicosanoids, drugs acting on smooth muscle (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

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.): **3 – 25**

Prerequisites: **see in the recommended curricula!**

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
2. Pain, trauma and moisture control during treatments
3. Metals (clinical pertains), cements (clinical pertains)
4. Ceramics (clinical pertains), composite resins (clinical pertains)
5. Dental bonding agents
6. Dental bonding agents
7. Kinds of composite resin filling materials and their use
8. Minimal invasive restorations. Composite resin fillings, plying techniques
9. The making of esthetic composite resin and porcelain veneers
10. The making of indirect class I, II, V. fillings. (Inlay)
11. The use of flowable composite resins, compomers and modern glass-ionomer cements in esthetic dentistry
12. Class III. and class IV. cavity fillings
13. Special cavity preparations, dentin pins, lining, extra-radicular anchorage
14. Intra- and parapulpal posts

Practices

1-56. Patient treatment in clinical practice

Seminars

Exam topics/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

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.): **1 – 20**

Prerequisites: **see in the recommended curricula!**

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.
2. Surgical removal of teeth and roots (sculptio). Consideration of flap preparation
3. Surgical removal of impacted and retained teeth I. wisdom teeth: indications, contraindications, complications
4. Surgical removal of impacted and retained teeth II. canines, premolars and supernumerary teeth: indications, contraindications, complications
5. Odontogenic inflammations and following consequences. Chronic periapical inflammations.
6. Surgery of the periapical space. Indications and contraindications of the resection. Retrograde root filling. Periapical curettage.
7. Periostitis, abscess and cellulitis from dental origin. Symptoms and therapy.
8. Abscesses. Local anesthesia of inflamed areas. Rules of incision.
9. Osteomyelitis. Diagnosis and therapy.
10. Alveolar osteitis (dry socket syndrome). Osteoradionecrosis. BION
11. Phlegmone; development, symptoms and therapy
12. Non-specific and non-odontogenic inflammation of the head and neck
13. Specific inflammation of the head and neck. Actinomycosis.
14. Seminary test, consultation.

Practices

1-28. Patient treatment in the clinical practice

Seminars

Exam topics/questions

OSKBE2 INTERNAL MEDICINE 2

Course director:

DR. LÁSZLÓ BAJNOK, associate professor
1st Department of Internal Medicine

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

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

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

Prerequisites: **see in the recommended curricula!**

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

Tierney LM, McPhee SJ, Papadakis MA. Current medical diagnosis and treatment. Current ed. Lange/McGraw-Hill, New York, NY

Lectures

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

Practices

1. 1. Rheumatic fever. Infective endocarditis. Myocarditis. Pericarditis.
2. 2. Rheumatic fever. Infective endocarditis. Myocarditis. Pericarditis.
3. 3. Arrhythmias
4. 4. Arrhythmias
5. 5. Valvular diseases. Cardiomyopathies.
6. 6. Valvular diseases. Cardiomyopathies.

7. 7. Ischemic heart diseases. Angina pectoris. Myocardial infarction.
8. 8. Ischemic heart diseases. Angina pectoris. Myocardial infarction.
9. 9. Heart failure (subtypes, symptoms, signs, therapy). Pulmonary embolism.
10. 10. Heart failure (subtypes, symptoms, signs, therapy). Pulmonary embolism.
11. 11. Peripheral vascular diseases. Venous thromboses.
12. 12. Peripheral vascular diseases. Venous thromboses.
13. Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
14. Diseases of the esophagus. Peptic ulcer disease. Stomach cancer.
15. Diseases of the erythropoiesis. Anemias. Polycythemia.
16. Colon cancer. Acute and chronic hepatitis.
17. Liver cirrhosis. Biliary stones. Cholecystitis. Pancreatitis.
18. Diseases of the erythropoiesis. Anemias. Polycythemia.
19. Liver cirrhosis. Biliary stones. Cholecystitis. Pancreatitis.
20. Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohns disease).
21. Gastrointestinal bleeding. Inflammatory bowel diseases (Ulcerative colitis, Crohns disease).
22. Colon cancer. Acute and chronic hepatitis.
23. Diseases of the leukocytes. Leukemias, malignant lymphomas.
24. Diseases of the leukocytes. Leukemias, malignant lymphomas.
25. Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.
26. Bleeding disorders. Coagulopathies. Thrombocytopenias. Abnormalities of platelet and vascular function.
27. Endocrinology. Diseases of the thyroid gland. Disorders of the suprarenal gland.
28. Endocrinology. Diseases of the thyroid gland. Disorders of the suprarenal gland.

Seminars

Exam topics/questions

1. Rheumatic fever
2. Infective endocarditis
3. Valvular diseases
4. Myocarditis
5. Pericarditis
6. Heart failure
7. Cardiomyopathies
8. Ischemic heart diseases
9. Angina pectoris
10. Myocardial infarction
11. Arrhythmias
12. 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

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.): **1 – 25**

Prerequisites: **see in the recommended curricula!**

Topic

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

Practices

1. Instruments and materials used in endodontics
2. Trepanation, working length determination, root-canal preparation with step-back technique on an extracted incisor, banded 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. Root-canal treatment on patients in clinical practice

Seminars

Exam topics/questions

Exam questions

1. The modern concept of endodontics
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
14. Step-down technique for root-canal preparation. Root-canal preparation with the anticurvature filing technique
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. Vitalextrirpation
40. Mortalextrirpation
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

OSKFL3 PROSTHODONTICS 3

Course director:

DR. GYULA SZABÓ, professor
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.): –

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

Practices

Seminars

Exam topics/questions

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.): **3 – 25**

Prerequisites: **see in the recommended curricula!**

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
2. Dental diagnosis and therapy of handicapped children
3. Dental materials
4. Cariological treatment of primary teeth
5. Cariological treatment of young permanent teeth
6. Treatment of pulp diseases
7. Endodontic treatment of young permanent teeth
8. Treatment of periodontitis
9. Treatment of gingival and oral mucosal diseases
10. Extraction therapy
11. Treatment of injured primary teeth
12. Treatment of injured permanent teeth
13. Dentures in childhood
14. Consultation

Practices

1-28. Dental treatments in children according to the Outpatient Department.

Seminars

Exam topics/questions

1. Local pain killers
2. systemic pain killers
3. Caries treatment in primary incisors
4. Caries treatment in primary molars
5. Caries treatment in newly erupted teeth
6. Pulpotomy, pulpectomy
7. definitive root canal filling
8. Apexification, apexogenesis
9. Treatment of periodontitis
10. Treatment of injured primary teeth
11. Treatment of injured newly erupted teeth
12. Treatment of sport injuries
13. Treatment of luxation in primary dentition
14. Treatment of luxation in permanent dentition
15. Extraction of deciduous teeth
16. Classification of toothless stage
17. Fixed dentures in childhood
18. Removable dentures in childhood
19. Treatment of gingival diseases
20. Treatment of symptoms of systemic diseases
21. Treatment of mucosal symptoms of medicated patients

22. Treatment of handicapped children
23. Treatment in anaesthesia
24. Dental materials in childhood
25. Orthodontic prevention
26. Trauma prevention
27. Caries prevention in high risk patients
28. prevention in elderly people
29. Prevention during pregnancy
30. Tumor prevention

OSKGT2 PHARMACOLOGY 2

Course director:

DR. ERIKA PINTÉR, professor
Department of Pharmacology and Pharmacotherapy

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

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

Headcount limitations (min-max.): **2 – 30**

Prerequisites: **see in the recommended curricula!**

Topic

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

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

Conditions for acceptance of the semester

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

Rang, Dale, Ritter, Moore: Pharmacology, 6th edition Elsevier Churchill Livingstone, 2007, ISBN 0443069115

B. G. Katzung (ed.): Basic and Clinical Pharmacology, 10th edition Lange Medical Books/McGraw-Hill, 2007, ISBN 0071451536

Lectures

1. Thyroid hormones, antithyroid drugs
2. Parathyroid hormone, vitamin D and drug treatment of osteoporosis
3. Oestrogens, anti-oestrogens, progestogens and anti-progestogen; oral contraceptives
4. Androgens, anabolic steroids and anti-androgens
5. Pituitary hormones
6. Antiepileptic drugs
7. Antianxiety and hypnotic drugs
8. Antipsychotic drugs
9. Antidepressants
10. Sulphonamides and trimethoprim. Fluoroquinolones
11. Aminoglycosides and antimycobacterial agents
12. Beta-lactam antibiotics
13. Tetracyclines, chloramphenicol, macrolide antibiotics (E. Pinter)
14. Antifungal agents, clindamycin, vancomycin

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. Pinter)
4. Pharmacology of the gastrointestinal tract 1: therapy of acid-related diseases, antiemetics (E. Pinter)
5. Pharmacology of the gastrointestinal tract 2: laxatives/purgatives, obstipants, therapy of liver diseases, drugs affecting the biliary tract, inflammatory bowel disease (Zs. Helyes)
6. Pharmacology of the gastrointestinal tract 2: laxatives/purgatives, obstipants, therapy of liver diseases, drugs affecting the biliary tract, inflammatory bowel disease (Zs. Helyes)
7. Insulin, glucagon and oral hypoglycaemic agents (E. Pinter)
8. Insulin, glucagon and oral hypoglycaemic agents (E. Pinter)
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. Bartho)
16. Opioid analgesic drugs (L. Bartho)
17. Non-steroidal anti-inflammatory drugs (G. Petho)
18. Non-steroidal anti-inflammatory drugs (G. Petho)
19. Drug abuse and dependence (E. Pinter)
20. Drug abuse and dependence (E. Pinter)
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. Petho)
26. Drugs used in chemotherapy of neoplastic diseases (G. Petho)
27. Drug interactions. Drug allergy. Cytotoxic/embryotoxic effects of drugs (E. Pinter)
28. Drug interactions. Drug allergy. Cytotoxic/embryotoxic effects of drugs (E. Pinter)

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
26. Serotonin and serotonin receptor antagonists
27. Eicosanoidok, 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, antiarrhoeal 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 antimycobacterial 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
58. Drug interactions. Drug allergy. Cytotoxic/embryotoxic effects of drugs

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.): **3 – 0**

Prerequisites: **see in the recommended curricula!**

Topic

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

Practices

- 1-28. Patient treatment

Seminars

Exam topics/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

OSKSZ2 ORAL SURGERY 2

Course director:

DR. LAJOS OLASZ, 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.): **1 – 20**

Prerequisites: **see in the recommended curricula!**

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

1. Maxillofacial cysts. Cysts of the jaws and soft tissues. Cyst surgery.
2. Antral inflammation due to dental origin. Sinusitis maxillaris odontogenes
3. Sinusperforation. Radix-in-antr. Surgical techniques of sinus closure.
4. Inflammatory diseases of salivary glandes I. Sialoadenitis
5. Inflammatory diseases of salivary glandes I. Sialolithiasis, cysts
6. Differential diagnostic steps in dentoalveolar and maxillofacial inflammations
7. Bleeding disorders. Coagulopathies, thrombopathies, vasopathies. Haemorrhagic diathesis. Anticoagulated patients going under surgical treatment.
8. Disturbance of growth in the maxillofacial region. Cheilo- and gnathoschisis. Plastic surgery of lip and palate.
9. Surgical way of dysgnathia. Progenia, prognathia, aperognathia, micrognathia.
10. Preprosthetic surgery. Bone corrections.
11. Implantation
12. Differential diagnosis of trismus.
13. Radiological signs in the aspects of dentoalveolar diseases.
14. Osteodistraction. Hard tissue augmentation

Practices

1-28. Patient treatment in the clinical practice

Seminars

Exam topics/questions

1. Surgical asepsis and antisepsis
2. General and local anesthesia
3. Local anesthesia of dental and oral surgery practice
4. Extractions. Removal of teeth and roots
5. Surgical removal of teeth and roots
6. Surgical removal of impacted and 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
24. Abscess. Local anesthesia of inflammated regions. Basic rules of incisions.
25. Facial clefts and their complex therapy
26. Diagnostic methods in salivary disorders
27. Osteoradionecrosis. BION
28. Osteodistraktion. Bone augmentation and grafting
29. Facial spaces and their importance in maxillofacial surgery.

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.): **5 – 140**

Prerequisites: **see in the recommended curricula!**

Topic

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

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

Postulates:

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

Conditions for acceptance of the semester

Examination:

At the end of the semester of Dermatology education the students are obliged to take a semester examination.

The examination's test is oral .

Making up for missed classes

Misses of the practice is not accepted.

Reading material

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

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

Lectures

1. The physiology, pathophysiology and hystopathology of the skin. Primery, elementary lesions.
2. Sedondary lesions of the skin.
3. Fungal diseases with cutaneous involvement.
4. Allergic diseases
5. Immunopathological diseases
6. Vesiculobullous diseases.
7. Cutaneous tumors of the skin
8. Psoriasis vulgaris, Lichen ruber planus, papillon lefevre syndrom
9. Drug eruptions
10. Methabolic disorders
11. Granulomatous skin lesions. Seborrhoic skin. The mucosal signs of the skin diseases.
12. Sexually transmitted diseases
13. Pyodermmy and bacillar and tuberculotic diseases
14. Viral infection.Dermatoses caused by parasites.

Practices

1. Patient examination
2. Dermatological history
3. Bacterial skin infection
4. Wiral skin infection
5. Fungal skin infection
6. Tests in allergic disorders
7. Examination of STD patient
8. Investigations in auto-immun diseases
9. Drug erupitons treatment
10. Psoriasis and it's variant
11. Investigations in auto-immun diseases
12. Skin tumors

13. Mucosal diseases1

14. Mucosal diseases2

Seminars

Exam topics/questions

1. Tissues of the skin

Chronic discoid lupus erythematosus (CDLE). Systemic lupus erythematosus (SLE)

2. Epiderma and barrier and reabsortion.

3. The glands of the skin.

Protective function of the skin.

4. The dermis and subcutis.

5. Primary lesions of the skin.

6. Secondary lesions of the skin.

7. Impetigo contagiosa.

8. Angulus infectiosus oris.

9. Erysipelas.

10. Tuberculosis of the skin.

11. Dermatophyte infections. Trichophytia superficiale.

12. Yeast infections of the skin of mycosus membrane.

13. Actinomycosis.

14. Herpes simplex. Herpes progenitalis.

15. Verruca vulgaris (common wart). Molluscum contagiosum.

16. Herpes zoster.

17. Urticaria

18. The definition of allergy, early and late type hypersensitivity.

19. Quincke oedema and its management.

20. Ekzema.

21. Scleroderma.

22. Pemphigus vulgaris.

23. Bullosus pemphigoid.

24. Dermatomyositis.

25. Psoriasis.

26. Lichen ruber planus.

27. Erythema exsudativum multiforme.

28. C. spinocellulare.

29. Basalioma.

30. Kaposi sarcoma

31. Melanoma malignum.

32. Gonorrhoea

33. AIDS

34. Granulomatous skin lesions.

35. Drug eruptions and treatment.

36. Seborrhoeic skin diseases (acne, rosacea).

37. The protective function of the skin.

38. Cutaneous precanceroses

39. Diagnosis and treatment of syphilis.

40. The mycosal and the skin symptoms of early syphilis.

41. The signs of late syphilis.

OSKFL4 PROSTHODONTICS 4

Course director:

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

6 credit • midsemester 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.): **–**

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

Practices

Seminars

Exam topics/questions

OSKFS2 ORTHODONTICS 2

Course director:

DR. GYULA TAMÁS SZABÓ, assistant lecturer
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.): **2 – 0**

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

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

Practices

1-28. 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

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.): **1 – 0**

Prerequisites: **see in the recommended curricula!**

Topic

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

Practices

1. Examine the patient`s ear, Examine the patient`s nose and nasal cavities (anterior rhinoscopy)
2. Examine the patient`s oral cavity, Examine the patient`s larynx and hypopharynx (indirect laryngoscopy)
3. Examine the patient`s nasopharynx (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`s 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. Hearing aids, irrigation of external ear canal, removal of foreign bodies from the external ear
12. Pure tone audiometry, Speech audiometry
13. Otoacoustic emissions
14. Brainstem evoked response audiometry

Seminars

Exam topics/questions

Requirements of the final examination

I. Physical examination by head-mirror /headlight/

Examine the patient`s

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

II. A. Clinical tests

Test the patient's

1. hearing /voice, Weber test, Rinne test/
2. vestibular system /spontaneous nystagmus

Romberg test

past-pointing

walking/

3. neck
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. Disorders of the inner ears, congenital malformations, hereditary deafness
14. Trauma to the inner ear
15. Otosclerosis
16. Fluid systems of the labyrinth. Pathological disorders. 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 nasi)
24. Obstruction of the nasal airway. Rhinitis
25. Allergic rhinitis
26. Fractures of the paranasal sinuses. Fronto-basal, maxillo-facial, blow out fractures, Le-Fort fractures
27. Paranasal sinusitis
28. Tumours of the salivary glands (benign and malignant)
29. Sialoadenitis
30. Differential diagnosis of the neck masses

31. Infectious diseases of the oral cavity and pharynx (peritonsillar abscess)
32. Pathology of Waldeyer ring
33. Praecancerous disorders in the oral cavity, pharynx, larynx and oesophagus
34. Malignant tumours in the oral cavity and pharynx (nasopharyngeal tumours)
35. Clinical symptoms and signs of the diseases of the larynx
36. Sensory and motor innervation of the larynx, signs of the disorders
37. Acute and chronic infections of the larynx
38. Acute epiglottitis. Phlegmonous epiglottitis. Abscess of the epiglottis
39. Benign tumours of the larynx
40. Laryngeal cancer
41. Classifications of laryngeal cancers. TNM
42. Lymphadenitis of the neck
43. Benign tumours of the neck
44. Thyroiditis
45. Malignant tumours of the thyroid gland
46. Clinical signs of obstructions of the upper airways. Conicotomy. Tracheotomy
47. Foreign bodies in the bronchial system. Foreign bodies of the oesophagus
48. Tumours of the oesophagus
49. Dysphagia

OSKGYE PAEDIATRICS FOR STUDENTS OF DENTISTRY

Course director:

DR. DÉNES MOLNÁR, professor
Department of Paediatrics

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.): **1 – 50**

Prerequisites: **see in the recommended curricula!**

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 on handouts.

Lectures

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

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 hamostasis

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.): **3 – 0**

Prerequisites: **see in the recommended curricula!**

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. It is also important to learn about the effects of ethanol consumption, drugs, and the most frequent toxins.

Conditions for acceptance of the semester

Semester exam

Absences accepted according to the exam rules.

Making up for missed classes

Individual agreement.

Reading material

Lecture notes of Forensic Medicine. Ed.: Péter Sótonyi, Éva Keller. Semmelweis Publisher, Budapest, 2008.

Lectures

1. Death investigations.
2. Causes of death.
3. Sudden, unexpected death.
4. Motor vehicle injuries.
5. Mass disaster, skeletal remains.
6. Effects of ethanol.
7. Introduction
8. Suffocation and asphyxia.
9. Human identification.
10. Toxicology.
11. Vital signs and reactions.
12. Wound and injuries.
13. Head injuries.
14. Autopsy case demonstration.

Practices

Seminars

Exam topics/questions

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

19. The effects of ethanol, drunkenness.
20. Acute and chronic intoxications and their dental signs.

OSKKF1 OPERATIVE DENTISTRY - OPERATIVE DENTISTRY 1

Course director:

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

2 credit • midsemester grade • Clinical module • autumn semester • recommended semester: 9

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

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

Prerequisites: **see in the recommended curricula!**

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

1-28. Conservative dental treatment of recalled patients.

Seminars

Exam topics/questions

OSKMEN 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.): **1 – 0**

Prerequisites: **see in the recommended curricula!**

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 (at both exams at least 'satisfactory' note should be reached), so two notes will give the final note.

Making up for missed classes

Reading material

Tompa (editor): An overview of Public health (ISBN: 963 219 720 8)

Maxcy, Rosenau, Last: Public Health and Preventive Medicine, 14th edition, Appleton and Lange (ISBN 0-8385-6185-3)

Holland, Detels, Knox: Oxford Textbook of Public Health, 2th edition, Oxford University Press (ISBN 0-1926-1706-0 (Volume 1), ISBN 0-1926-1707-9 (Volume 2), ISBN 0-1926-1708-7 (Volume 3), ISBN 0-1926-1926-8 (Volumes 1-2-3 together)

Lectures

1. Aim of Public health. History of public health
2. Epidemiology. Epidemiological studies.
3. Methods of demography
4. Morbidity and mortality statistics in Europe.
5. Public health importance of oral diseases. Epidemiology and prevention of caries. Role of micronutrients.
6. Levels of prevention. Screening
7. Water hygiene
8. Air hygiene
9. Healthy nutrition
10. The principles of the epidemiology of infectious diseases
11. Practical measures to control infectious diseases
12. Vaccination. Nosocomial diseases
13. Health effects of noise and vibration, dusts, chemicals
- 14-28. Health care systems, financing and quality assurance, management

Practices

1. Morbidity and mortality in Europe.
2. Most important non-communicable diseases
3. Tasks and operation of public health institutions. Definition of health. Health status influencing environmental, social and psychological factors.
4. Epidemiology and prevention of oral cancer. Screening
5. Environment and human beings. Ecology
6. Visit at the Public Health Officers Service
7. Environmental pollution
8. Healthy nutrition. Consequences of over-nutrition, disproportional intake of nutrients. Malnutrition
9. Food borne illnesses (of biological/chemical origin). Toxicoinfections
10. Viral hepatitis, Lyme-disease, AIDS
11. Hospital hygiene
12. Occupational health aspects in dentistry
13. Occupational health aspects in dentistry, prevention
14. Ergonomics 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 psychological factors.
 3. Methods of demography. Basic measures of demography
 4. Morbidity and mortality statistics in Europe.
 5. Definition of epidemiology. Epidemiological studies.
 6. Human beings and the environment and their interactions.
 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)
 11. Scope and operation of occupational health care.
 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
 19. Public health importance of oral diseases. Epidemiology and prevention of caries. Role of micronutrients.
 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
- Epidemiology and prevention of (re-)emerging infections
28. Epidemiology and prevention of nosocomial diseases

OSKPR2 PARODONTOLOGY 2 - DISEASES OF THE ORAL MUCOSA

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.): **3 – 0**

Prerequisites: **see in the recommended curricula!**

Topic

Recognition and differential diagnosis of the diseases of the oral mucosa and ght 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. Oral symptoms of HIV infections and prevention of nosocomial infections.
2. Physical, chemical and iatrogenic lesions of the oral mucosa
3. Primary ulcers of oral mucosa.
4. Secondary ulcers of oral mucosa.
5. Praemalignant lesions.
6. Viral and bacterial infections.
7. Lichen Oris
8. Fungal infections of the oral mucosa.
9. Oral symptoms of haematological diseases.
10. Non-surgical diseases of the salivary glands.
11. Oral symptoms of metabolic and neuroendocrin system diseases, diet habits and vitamin deficiencies.
12. Oral symptoms of cardiovascular diseases.
13. Diseases of the tongue and lips
14. Immunological diseases.

Practices

1-28. Patient treatment

Seminars

Exam topics/questions

1. Gingivostomatitis Herpetica.
2. Herpes recidivans. Herpes Zoster, Herpangina.
3. Clinical types of candidosis.
4. Treatment of candidosis.
5. Inflammatory diseases of the lip.
6. Developmental disorders of the lip. Quincke oedema.
7. Cheilitis angularis. Furunculus et Erysipelas labii.
8. Developmental disorders of the tongue. Lingua geographica.
9. Glossitis mediana rhomboica. Glossopyrosis, glossodynia. Lingua pilosa nigra.
10. Oral symptoms of leukaemias, agranulocytosis.
11. Oral symptoms diseases of red the blood cells producing system.
12. Oral symptoms of vitamin defficiencies.
13. Oral symptom of neuroendocrin system diseases.
14. Oral symptom of blood coagulopathies.
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.
19. Oral aphtae.

20. Physical injuries of the oral mucosa.
21. Chemical injuries of the oral mucosa.
22. The clinical anatomy and histology of the salivary glands.
23. Anatomy of the tongue. Physiology of taste sensation.
24. The clinical anatomy and histology of the oral mucosa.
25. Leukoplakia, leukokeratosis nicotina palati.
26. Lichen oris.

OSKSZ3 ORAL SURGERY 3

Course director:

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

3 credit - midsemester 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.): **1 – 20**

Prerequisites: **see in the recommended curricula!**

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

Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998

Lectures

1. Diagnosis of mandiblar fractures. Types of fractures
2. The general principles of maxillofacial fractures treatment
3. Conservative and surgical therapy of mandiblar fractures
4. Complications of mandiblar fractures
5. Types of fractures of central and centrolateral midface and its therapy
6. Types of fractures of lateral midface
7. Treatment of combined fronto-basal-facial injuries
8. Complications of midfacial fractures
9. Discussion
10. Benign tumors of soft tissues
11. Odontogenic tumors
12. Benign tumors of jaws
13. Precanceroses
14. Discussion

Practices

1-28. Patient treatment in the clinical practice

Seminars

Exam topics/questions

OSKSZE OPHTHALMOLOGY

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.): **1 – 15**

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

1. Introduction. The globe (embryology, anatomy, growth and development)
2. The eyelids. The lacrimal apparatus
3. The conjunctiva. Allergic eye diseases
4. The cornea. The sclera
5. The uveal tract: iris, ciliary body and choroid. Intraocular inflammation
6. The lens
7. The glaucoma. Classification, diagnosis, pathogenesis and treatments
8. The vitreous and the vitreoretinal diseases. Retinal detachment
9. Retina I. Vascular abnormalities, retinopathies
10. Retina II. Central and peripheral retinal dystrophies and degenerations
11. Neuroophthalmology (the optic nerve, the visual pathway, the pupil) Electrophysiology (ERG, EOG, VEP)
12. Intraocular tumours. The orbit
13. Strabismus. Nystagmus
14. Ocular injuries. The evaluation of permanent impairments. The rehabilitation of the blind.

Practices

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

Seminars

Exam topics/questions

1. A) Visual acuity - terminology, examinations
B) Cataract - treatment options
2. A) Colour vision - investigation methods
B) Uveitis. Sympathetic ophthalmia

3. A) Visual field - determination, how to test?
B) Diabetic 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 diagnosed by a dentist?

OSKSZN OBSTETRICS AND GYNAECOLOGY

Course director:

DR. ISTVÁN DROZGYIK, 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.): **5 – 20**

Prerequisites: **see in the recommended curricula!**

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

Lectures and handouts.

Lectures

1. Physiology of pregnancy. Maternal diseases and pregnancy
2. Ultrasound examinations during pregnancy; Prenatal genetics
3. Pregnancy pathology I
4. Pregnancy pathology II
5. Twin gestation. Preterm delivery
6. Normal and pathological deliveries
7. Operative delivery
8. Puerperium
9. Neonatology
10. Physiology of menstrual cycle. Bleeding abnormalities
11. Gynecological infections
12. Endometriosis. Gynecological operations
13. Menopause
14. Gynecological malignancies

Practices

Seminars

Exam topics/questions

Written exam, evaluation is according to lecturers and handout.

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.): –

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

Making up for missed classes

Reading material

Lectures

Practices

Seminars

Exam topics/questions

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.): **2 – 25**

Prerequisites: **see in the recommended curricula!**

Topic

Conditions for acceptance of the semester

All practices

Making up for missed classes

None

Reading material

Lectures

Lectures

1. Dietary guidelines in pediatric dentistry
2. Treatment in pediatric dentistry in sedation
3. Consultation
4. Dermatological and allergic diseases
5. The children`rights. The UNO Declaration
6. Complex prevention in pediatric dentistry
7. Gingival and mucous membrane diseases in childhood
8. Developmental diseases
9. Emergency treatment.
10. Oropharyngeal diseases
11. Endodontic treatments in pediatric dentistry
12. Trauma treatments. Emergency treatment.

Practices

1-24. Annual check. Emergency care.

Seminars

Exam topics/questions

1. Dental examination of children
2. Caries diagnostic procedure in deciduous dentition
3. Caries diagnostic procedure in newly erupted teeth
4. Risk assesment
5. Caries diagnistic procedure in high risk patients – caries activity tests
6. Pulp diseases
7. Periostitis
8. Injured teeth
9. luxation
10. Soft tissue injuries
11. Emergency care in pediatric dentistry
12. Diseases in mucous membrane
13. Periodontal diseases
14. Gingival diseases
15. Symptoms of systemic diseases in childhood
16. education of oral hygiene
17. Dietary guidelines
18. Annual checking, indexes
19. Dental educational programmes
20. Local fluoridation
21. Systemic fluoridation
22. Toxicity of fluorides
23. Primary, secondary and tertiary prevention
24. Fissure sealing

25. Local pain killers
26. systemic pain killers
27. Caries treatment in primary incisors
28. Caries treatment in primary molars
29. Caries treatment in newly erupted teeth
30. Pulpotomy, pulpectomy
31. definitive root canal filling
32. Apexification, apexogenesis
33. Treatment of periodontitis
34. Treatment of injured primary teeth
35. Treatment of injured newly erupted teeth
36. Treatment of sport injuries
37. Treatment of luxation in primary dentition
38. Treatment of luxation in permanent dentition
39. Extraction of deciduous teeth
40. Classification of toothless stage
41. Fixed dentures in childhood
42. Removable dentures in childhood
43. Treatment of gingival diseases
44. Treatment of symptoms of systemic diseases
45. Treatment of mucosal symptoms of medicated patients
46. Treatment of handicapped children
47. Treatment in anaesthesia
48. Dental materials in childhood
49. Orthodontic prevention
50. Trauma prevention
51. Caries prevention in high risk patients
52. prevention in elderly people
53. Prevention during pregnancy
54. Tumor prevention

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.): **1 – 20**

Prerequisites: **see in the recommended curricula!**

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

Practices

1-48. 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
- 9.b. Caries-frequency. Measuring of caries intensity
- 10.a. Controll 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 resistency of the tooth
- 15.a. Anatomy of the pulp
- 15.b. Physical and chemical controll 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. Vitalexstirpation, vitalamputation
- 21.b. Influence of genetic, habit, sociality and urbanization on caries
- 22.a. Mortalexstirpation. Treatment of gangraena pulpa
- 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. Bleaching. Retreatment of endodontically treated teeth
- 25.b. Preeruptive prophylaxis of caries

OSKPR3 PARODONTOLOGY 3 - PARODONTOLOGY

Course director:

DR. ÁGNES BÁN, assistant 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.): **3 – 0**

Prerequisites: **see in the recommended curricula!**

Topic

Treatment planing 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).
2. Periodontal surgical procedures II (Mucogingival surgery, free gingival flap transplantation).
3. Periodontal surgical procedures III (Regenerative surgery, GTR techniques, bone replacement materials).
4. Introduction to clinical implantology (Types of the dental implants, theories of osseointegration).
5. Introduction to clinical implantology (planing on implants and teeth).
6. High risk patients I.
7. High risk patients II.
8. Teeth with furcation involvement.
9. Periodontal supportive therapy.
10. Role of antibiotics in periodontology.
11. The most frequently used drugs in periodontology.
12. Seminar.

Practices

1-36. Patient treatment

Seminars

Exam topics/questions

1. a. Structure and function of the gingiva and periodontal ligament.
b. Gingivostomatitis Herpetica.
2. a. Structure and function of the cementum and the alveolar process.
b. Herpes recidivans. Herpes Zoster, Herpangina.
3. a. Formation of dental plaque.
b. Clinical types of candidosis.
4. a. Calculus.
b. Treatment of candidosis.
5. a. Acquired pellicle, debris, materia alba.
b. Inflammations of the lips.
6. a. The role of bacteria in the aethiology 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
b. Glossitis mediana rhomboica. Glossopyrosis, glossodynia. Lingua pilosa nigra.
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.
12. a. Gingivitis ulcerosa. (ANUG).
b. Oral symptoms of vitamin deficiencies.
13. a. Periodontitis.
b. Oral symptom of neuroendocrin system diseases.
14. a. Localised, aggressive periodontitis.
b. Oral symptom of blood coagulopathies.
15. a. Periodontal abscess.
b. The antibacterial effect of the saliva. Secretoric IgA.
16. a. Paeriodontal examination, diagnosis, treatment plan.
b. Erythema exsudativum multiforme.
17. a. Aim of motivation and instruction in oral health.
b. Pemphigus, pemphigoid.
18. a. Toothbrushing.
b. Mucosal injuries caused by chemical materials or drugs.
19. a. Interdental cleaning.
b. Aphthosis recidivans.
20. a. Scaling and polishing.
b. Phisical injuries of the oral mucosa.
21. a. Gingivectomy, postoperative advices, complications.
b. Chemical injuries of the oral mucosa.
22. a. Flap surgery. Mucogingival surgical terapy.
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.
25. a. Prevention of periodontal diseases.
b. Leukoplakia, leukokeratosisi nicotina palati.
26. a. Treatment of periodontal pockets with closed curettage.
b. Lichen oris

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.): **1 – 20**

Prerequisites: **see in the recommended curricula!**

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

Larry J. Peterson, Edward Ellis III, James R. Hupp, Myron R. Tucker: Oral and Maxillofacial Surgery, 1998.

Lectures

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

Practices

1-36. Patient treatment in the clinical practice

Seminars

Exam topics/questions

1.
 - a. The form of local and general anaesthesia
 - b. Malignant tumors of the tissues, types and divisions
2.
 - a. Complications of dental and oral surgical anaesthesia
 - b. Treatment of combined fronto-basal-facial injuries
3.
 - a. Removal of the teeth and roots, indications and contraindications
 - b. Functional disease of the mandibular joint
4.
 - a. Surgical removal of teeth or roots and flap preparation
 - b. Tumors of the soft tissues
5.
 - a. Surgical removal of the impacted and retained teeth
 - b. Surgical treatment of the salivary gland diseases
6.
 - a. Ostitis alveolaris
 - b. Precanceroses
7.
 - a. Surgery of the periapical area
 - b. Combined treatment and side effects of malignant tumors
8.
 - a. Periostitis of dental origin

- b. Fractures of TMJ and its treatment
- 9.
 - a. Osteomyelitis and its treatment
 - b. Malignant bone tumors
- 10.
 - a. Non-specific inflammation of facial soft tissues
 - b. Diagnosis of mandibular fractures and its types
- 11.
 - a. Specific inflammation of facial soft tissues
 - b. Conservative treatment of mandibular fractures
- 12.
 - a. Cellulitis
 - b. Bone system diseases, mandibular manifestation
- 13.
 - a. Cysts of facial bones
 - b. Surgical therapeutic possibilities of malignant tumors
- 14.
 - a. Facial soft cysts
 - b. Malign tumors of the facial and its diagnosis
- 15.
 - a. Cyst operations
 - b. Bone replacement, plastic surgery of the face soft tissues
- 16.
 - a. Odontogenic sinusitis maxillaris
 - b. Central midface fractures and treatments
- 17.
 - a. Surgical technique of sinus closer
 - b. Complications of mandibular fractures
- 18.
 - a. Removal of the teeth in haemophilic patients
 - b. Inflammations of TMJ
- 19.
 - a. Congenital anomalies of the maxillo-facial area
 - b. Therapy of mandibular fractures
- 20.
 - a. Surgical treatment of dysgnathia
 - b. Therapies of mandibular joint dislocation
- 21.
 - a. Inflammatory diseases of salivary glands
 - b. Odontogenic tumors
- 22.
 - a. Differential diagnosis of dentoalveolar and maxillo-facial inflammations
 - b. The general principles of facial and mandibular fractures treatment
- 23.
 - a. Preprosthetic surgery
 - b. Block-dissections of the neck
- 24.
 - a. Differential diagnosis of trismus
 - b. Maxillofacial bone tumors
- 25.
 - a. Radiographic pictures of dento-alveolar diseases
 - b. Lateral mid-face fractures