The University of Pécs Medical School

GENERAL MEDICINE Major

STUDY PROGRAM 2019/2020

Subjects of the Final / Rotational year (obligatory subjects)
11-12th semester

OAS-BEL-T Internal Medicine 3
OAS-CSO-T Family Medicine Practice 8
OAS-GYE-T Paediatrics 11
OAS-NEU-T Neurology 12
OAS-OXY-T Emergency Medicine 16
OAS-PSZ-T Psychiatry 18
OAS-SET-T Surgery - Traumatology 22
OAS-SZN-T Obstetrics and Gynaecology 26
OAS-BEL-T  INTERNAL MEDICINE
Course director: DR. ISTVÁN WITTMANN, professor
2nd Department of Internal Medicine and Nephrology Centre, istvan.wittmann@aok.pte.hu

10 credit • final exam • Final/Rotational (year) subject • both semesters • recommended semester: 11.-12

Number of hours/semester:
0 lectures + 284 practices + 16 seminars = total of 300 hours

Course headcount limitations (min.-max.):
1 – 999

Prerequisites:
completed Basic, Preclinical and Clinical modules completed

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

Topic

Responsible faculty of the course: Professors Kálmán Tóth and István Wittmann.

The aim of the practice is that students of the 6th year, who have already achieved theoretical excellence in significant components of Internal Medicine, synthesize their knowledge during daily bedside practice and use it independently yet under proper supervision. Students work at accredited departments of Medicine of University Hospitals, Teaching Hospitals or at Teaching Divisions, as trainees similarly to residents, ward physicians or doctors in training, they gain empirical, hands-on experiences with patients. Practical requirements for students during and after the practice:

1. Students should take case histories and perform detailed physical examination of patients at the ward. The preparation of a written documentation of each case is expected (at least 2 patients weekly).
2. Students should write a diagnostic and therapeutic plan after the admission of the patient. The preparation of a written documentation of each case is expected (at least 2 patients weekly).
3. Students should summarize diagnostic test results and clinical course as a written discharge summary upon patient’s discharge (at least 2 patients weekly).
4. Students should be prepared to present detailed anonymized patient documentations from each week of the practice (in the end at least 8) at the final examination. The documentations should consist of the above mentioned items, they should indicate the date, the ward specifications, the name of the tutor, the name of the student and they should also be signed by both the student and the tutor. The case history should be composed in the language that was used at the ward, the rest of the documentation in the study language of the student or in English. A patient documentation should be at least one, and a maximum of four typed (A/4) pages long.
5. A regular presence of students is required at medical workshops, consultations, graduate and postgraduate teaching programs of the ward. The practice period is optimally supported by consultations and case presentations.
6. The practice should be performed on regular working days, during usual working hours (6-8 hours a day). Night duties, public/bank holidays, outpatient care, scientific work cannot be accepted as part of the practice.
7. Students should take part in activities of residents, ward doctors and doctors in training under supervision according to the applicable local professional, safety and legal regulations. These should include taking medical history, performing physical examination, admitting new patients, planning diagnostic and therapeutic measures, fulfilling tasks required by the ward-round, regularly reporting to the staff, participating in writing discharge summaries and giving account of their patients during the professorial grand-rounds. They should also accompany their patients to see special examinations and therapies (e.g. endoscopy, biopsy, echocardiography, exercise stress test, operations).
8. Students get certification of the gained clinical skills that they acquire during the practice (at least 4 signatures are required each week). They will be entered into the ?Booklet of Clinical Skills? by the leader of the subject on the basis of the certificate.

http://aok.pte.hu/docs/th/file/GBofCS.pdf

Internal medicine practice can be spent in a foreign country after approval of the Registrar’s Office at an Internal Medicine Ward in a University Hospital, in a Teaching Hospital or County Hospital with 24-hour patient admission. The student is required to speak the language of the host country. The head of the ward should certify the fulfillment of the practice according to the criteria of the University of Pécs (this should include signature, readable name of head and stamp of the department).

Conditions for acceptance of the semester

Exam: Final exam (oral) with a practical part consisting of history taking, physical examination and evaluation of the test results of the patient. At the theoretical part detailed discussion of topics (proposal: 3 topics including cardiology and gastroenterology).

The final exam may contain written or oral entry questions of the most important simple facts relevant in the diagnostics and treatment of internal medicine patients.

15% or more absences are not tolerated during the practice.

Mid-term exams
N/A

Making up for missed classes
It is possible to make up justified absences.

At least 300 hours and at least 8 weeks practice has to be certified.

The certificate of the practice should be accepted by the Registrar’s Office 24 hrs before signing up for the exam. No assignment of examination date can be given without accepted certificate.
Reading material

- **Obligatory literature**
- **Literature developed by the Department**
  
  Lecture slides (uploaded on the two Internal Departments’ homepage)
- **Notes**
  
  NOTES in diabetology for medical students.
  NOTES in nephrology and hypertension for medical students.
  (http://aok.pte.hu/en/egyseg/dokumentumok/270)
- **Recommended literature**
  
  Andreoli, T. E., Carpenter, C. C. J., Griggs, R., Loscalzo, J. (eds.): Cecil Essentials of Medicine, 5th edition, W.B. Saunders Company, 2007 or newer
  
  
  Recommended literature:
  
  Kumar and Clark’s Clinical Medicine, International Edition with STUDENT CONSULT online access, 8th edition;
  
  Ballinger: Essentials of Kumar and Clark’s Clinical Medicine, 5th edition;
  
  Swartz: Textbook of Physical Diagnosis, History and Examination with STUDENT CONSULT Online Access, 7th edition;
  
  Davidson’s Principles and Practice of Medicine with STUDENT CONSULT Online Access, 22nd edition;
  
  Macleod’s Clinical Examination with STUDENT CONSULT Online Access, 13th edition;
  
  Dehn & Asprey: Essential Clinical Procedures Expert Consult - Online and Print, 3rd

Lectures

Practices

1-284  Practice (depending upon current medical attendance)

Seminars

1  Heart failure (Dr. Tamás Habon)
2  Acid related gastrointestinal diseases (Dr. Áron Vincze / Dr. Imre Szabó)
3  Dyslipidemia and obesity (Dr. László Bajnok)
4  Chronic liver diseases (Dr. Alajos Pár / Dr. Gabriella Pár)
5  Disorders of blood coagulation (Dr. Hajna Losonczy / Dr. Ágnes Nagy)
6  Malignant hematologic diseases (Dr. Árpád Szomor / Dr. Ágnes Nagy)
7  Endocrinology (Dr. Emese Mezősi)
8  Clinical immunology (Dr. László Czirják)
9  Pulmonology (Dr. Veronika Sárosi)
10  Infectology (Dr. Zoltán Péterfi)
11  Nephrology (Dr. Judit Nagy)
12  Diabetes (Dr. István Wittmann)
13  Hypertension (Dr. Tibor Kovács)
14  Case presentation (Dr. Mária Figler)
15  Cardiac arrhythmias (Dr. Kálmán Tóth)
16  Coronary artery disease (Dr. László Czopf)

Exam topics/questions

Exam questions (theses):

1. Supraventricular arrhythmias, diagnosis and therapy
2. Ventricular arrhythmias, diagnosis and therapy
3. Blocks and conduction disorders, diagnosis and drug treatment
4. Preexcitation syndromes, diagnosis and treatment
5. Non-pharmacological therapy of arrhythmias and conduction disorders (cardioversion, pacemakers, automatic implantable cardioverter defibrillator, catheter ablation)
6. Treatment of syncope and sudden cardiac death. Diagnosis and treatment. Cardiopulmonary resuscitation
7. Epidemiology, risk factors and primary prevention of ischemic heart disease
8. The syndromes of ischemic heart disease and their differential diagnostics
9. The types of acute coronary syndromes, their clinical features, complications, diagnosis and treatment
10. The non-pharmacological treatment of ischemic heart disease (percutaneous coronary interventions, stent implantation, coronary bypass operation)
11. Secondary prevention of ischemic heart disease, medical follow-up of patients after a myocardial infarction or coronary revascularisation
12. Epidemiology, pathophysiological background, types and clinical syndromes of heart failure
13. Diagnosis and therapy of heart failure
14. The importance of essential hypertension, epidemiology, diagnosis and treatment
15. Secondary hypertension, types, differential diagnosis and therapy
16. The cardiomyopathies. Types, pathophysiological background, diagnostics and therapy
17. Inflammatory diseases of the heart (endocarditis, myocarditis, pericarditis) and cardiac tamponade
18. Infective endocarditis. Rheumatic fever and its consequences
19. Valve diseases. Diagnosis and therapy
20. The differential diagnostics and acute management of chest pain
21. Platelet inhibition, anticoagulant and fibrinolytic treatment in internal medicine, methods for monitoring their efficacy
22. Types of anemia. Etiology of iron deficiency anemia, clinical picture and treatment
23. Megaloblastic and other macrocytic anemias. Etiology, types and diagnostics of hemolytic anemias
24. Immune thrombocytopenia. Diagnostics and treatment. Thrombotic thrombocytopenic purpura and the hemolytic uremic syndrome, clinical picture and treatment
25. The aplastic anemia
26. Acute myeloid and lymphoid leukemia. Diagnostics, clinical picture and principles of treatment
27. Classification of myeloproliferative disorders, general characteristics. Polycythemia vera, essential thrombocytemia and osteomyelofibrosis. Clinical picture, possibilities of treatment
28. Chronic myeloid leukemia. Diagnostics, clinical picture and treatment
29. Chronic lymphocytic leukemia. Diagnostics, clinical picture and possibilities of treatment
31. Non-Hodgkin malignant lymphomas (NHL). Classification, clinical characteristics of indolent and aggressive NHL, possibilities of treatment
32. Multiple myeloma. Diagnostics, symptoms, treatment
33. Deep venous thrombosis and pulmonary embolism. Diagnostics and treatment
34. Inherited and acquired thrombophilias
35. Etiology and types of hemorrhagic disorders
36. Hemophilias. Clinical characteristics, principles of substitution therapy
37. Tumors of the hypophysis. Diabetes insipidus
38. Hyperthyroidism. Hypothyroidism
39. Thyroid tumors. Inflammatory disorders of the thyroid gland
40. Conn’s syndrome. Prolactinoma
41. Cushing’s disease and syndrome. Addison’s disease
42. Hypoparathyroidism. Hyperparathyroidism
43. Pheochromocytoma
44. Acromegaly. Hypopituitarism
45. Congenital adrenal hyperplasia. Osteoporosis
46. Basic symptoms of systemic autoimmune diseases. Primary and secondary Raynaud’s syndrome
47. Rheumatoid arthritis (RA). Clinical and laboratory features, treatment
48. Systemic lupus erythematosus (SLE). Characteristics, diagnosis, therapy
49. The antiphospholipid syndrome. Polymyositis, dermatomyositis
50. Main clinical characteristics of Sjögren’s syndrome. Extraglandular manifestations
51. Basic features and treatment of systemic sclerosis
52. Systemic vasculitis syndromes. Temporal arteritis
53. Types of vomiting. Diarrhea
54. Gastro-esophageal reflux disease
55. Tumors of the esophagus, stomach and small intestine
56. Peptic ulcer disease. Helicobacter pylori infection
57. Acute and chronic gastritis
58. Functional bowel diseases
59. Celiac disease. Malabsorption syndromes
60. Crohn’s disease and ulcerative colitis. Precancerous states of the gastrointestinal tract
61. Colonic polyps and cancer. Diverticulosis and diverticulitis of the colon
62. Appendicitis. Differential diagnostics of abdominal pain
63. Acute and chronic pancreatitis. Functional diagnostics of pancreas insufficiency
64. The ileus. Types of peritonitis. The acute abdomen
65. Classification and differential diagnostics of jaundice. Acute and chronic viral hepatitis
66. Alcoholic liver disease. Liver cirrhosis
67. Autoimmune hepatitis. Primary biliary cirrhosis
68. Primary sclerosing cholangitis
69. Gall stone disease
70. Tumors of the liver and the biliary system. Pancreas cancer
71. Hemochromatosis and Wilson’s disease
72. Diagnostics and therapy of gastrointestinal bleeding
73. Differential diagnostics of hematuria
74. Differential diagnostics of proteinuria
75. Differential diagnostics of edema
76. Examination of the kidney (function, morphology, histology)
77. Acute glomerulonephritis
78. Rapidly progressive glomerulonephritis
79. Nephropathies associated to systemic illnesses (SLE nephropathy, vasculitis, atherosclerosis, hemolytic uremic syndrome)
80. Nephrotic syndrome (minimal change, focal segmental glomerulosclerosis, membranous glomerulonephritis)
81. IgA nephropathy
82. Urinary tract infections
83. Acute tubulointerstitial nephritis, analgesic nephropathy
84. Acute renal failure
85. Chronic renal failure
86. Renal replacement therapies
87. Impaired fasting glucose (IFG), impaired glucose tolerance (IGT) and diabetes mellitus. Diagnostics. Treatment of IFG and IGT
88. Clinical picture of type 1 diabetes mellitus in adults. Types of insulin, techniques and regimens of insulin treatment, blood sugar monitoring
89. Gestational, pancreatoprive diabetes and the maturity onset diabetes in the young (MODY). Their clinical picture and treatment, preoperative management of diabetic patients
90. The clinical picture of type 2 diabetes. Dietary, oral antidiabetic and insulin treatment
91. Clinical picture of the metabolic syndrome. Primary prevention of atherosclerosis
92. Hyperglycemia, ketoacidosis, hypoglycemia, diabetic neuropathy, diabetic foot. Their diagnosis and treatment
93. Diabetic nephropathy. Diagnosis and treatment
94. The primary dyslipidemias. Clinical picture and treatment
95. The secondary dyslipidemias. Clinical picture and treatment
96. Treatment of hypertension in patients with metabolic diseases (diabetes mellitus, dyslipidemia, metabolic syndrome)
97. Types of pneumonia, symptoms and therapy
98. Symptoms of bronchial asthma. Its differentiation from chronic obstructive pulmonary disease (COPD) and cardiac asthma. Therapy of bronchial asthma
99. Chronic obstructive pulmonary disease (COPD). Diagnostics, types, therapy
100. Tuberculosis, a differential diagnostic problem
101. Importance of pneumoconiosis and its complications
102. Infectious diseases with bloody stool
103. The anthropozoonoses
104. Lyme’s disease
105. Influenza
106. Human immunodeficiency virus (HIV) infection and its consequences

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

Ascites puncture (ascitic tap)
Assessment of an acute abdomen
Colonoscopy
Endoscopy and/or endoscopic ultrasound examination of the hepatobiliary system
Esophago-gastro-bulboscopy
Examination of a dead person, post-mortem examination, initiating autopsy
Faecal occult blood test
Internal Medicine history taking and physical examination, case history (inspection of the patient, examination of the nose, pharynx and the oral cavity, inspection of the mucous membranes, palpation of the salivary glands, palpation of the lymph nodes, inspection and palpation of the skin, examination of turgor and edema, examination of the thorax, examination of apical beat, percussion of cardiac boundaries, auscultation of the heart sounds, murmurs, palpation, percussion, auscultation of the abdomen, palpation of the liver and the spleen, rectal digital examination, palpation of the thyroid gland, pectoral fremitus, examination of the pulse, lung boundaries, excursion of the diaphragm, auscultation, percussion of the lungs, measurement of blood pressure, palpation of the kidneys, measurement of somatometric data, assessment of genital developmental condition, assessment of psychological and social health condition)

Pleural tap (thoracic puncture), insertion of pleural drain

Recording and evaluating an ECG

Participants

Dr. Alizadeh Hussain (I108IM), Dr. Bajnok László Zoltán (ZW70YF), Dr. Cseh Istvánné (Dr. Figler Mária) (G4OE5G), Dr. Czirják László István (PW1W89), Dr. Czopf László József (BAVD1M), Dr. Habon Tamás (GG1E2P), Dr. Kelényi Gáborné (Dr. Nagy Judit) (X84GNA), Dr. Kovács Tibor József (CMIKNF), Dr. Márkné Dr. Sárosi Veronika (G6UWAT), Dr. Mezősi Emese (EV4D75), Dr. Nagy Ágnes (GOMLW0), Dr. Pár Alajos (SXE7MD), Dr. Pár Gabriella (IQHZQO), Dr. Péterfi Zoltán (KUQFYW), Dr. Szabó Imre (CIVHBV), Dr. Szomor Árpád (FVVVTA), Dr. Tóth Kálmán (MEK9DI), Dr. Vincze Áron Endre (FO6QZV), Dr. Wittmann István (QX2T3A)
OAS-CSO-T  FAMILY MEDICINE PRACTICE
Course director: DR. ÁGNES ERIKA CSIKÓS, associate professor
Department of Primary Health Care, csikos.agnes@pte.hu

2 credit • midsemester grade • Final/Rotational (year) subject • both semesters • recommended semester: 11
Number of hours/semester: 0 lectures + 60 practices + 0 seminars = total of 60 hours
Course headcount limitations (min.-max.): 1 – 1
Prerequisites: completed Basic, Preclinical and Clinical modules completed

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

Topic
To get impression and information about the Family Physicians’ colourful work and how Family Medicine synthesises the knowledge of many different specialities. To learn and/or practice new methods and clinical skills.

Conditions for acceptance of the semester
If the student chooses to complete the practice in Hungary, the practice can only be completed at an accredited GP’s office. A Declaration of Acceptance signed by the chosen GP must be uploaded to NEPTUN, 2 weeks prior to the planned date of the practice. The practice can only be begun with the permission of the Head of the English Program. At a given time period, only one student can be present at the tutor’s (GP’s) office. In order to have the practice accepted, you need to complete and send us 2 interview forms, as well as two evaluation forms (one from the student and one from the doctor) 3 days after the completion of the practice. The required forms can be downloaded from the website of the Department of Primary Health Care. The practice can be completed abroad or at GP’s offices accredited by the other Hungarian Universities.

Mid-term exams
Making up for missed classes
The attendance of the practice is obligatory.

Reading material
- Obligatory literature
  John Muntagh’s: General Practice
- Literature developed by the Department
- Notes
- Recommended literature

Lectures
Practices
1  Introduction of the Family Practice
2  Introduction of the Team
3  The Basic Administrations
4  Administration in Practice
5  Collecting Different Patient’s History
6  Interviewing Different Patients
7  Examination of Different Patients
8  Common Diagnostic Procedures
9  Taking Samples from Patients (blood, urine, mouth samples...)
10 Differential Diagnosis
11 Differential Diagnostical Procedures
12 making ECG
13 Analysing ECG
14 Consultations with Specialists
15 Evaluating Records and Results
16 Informing the Patients about Results
17 Different Screening Techniques and Screening Programs
18 Recruiting Patients for Screening Programs
19 Making Diagnosis
20 Examination of Children
21 Communicating with Parents
22 Common Problems of the Elderlies
Pre and Postoperative management of the Patients
Juridical Examinations and Administration
Preoperative Management of Patients
ECG Making
ECG Making
ECG Making
ECG Analysis
ECG Analysis
ECG Analysis
Neurological Examination
Neurological Problems of Patients
Otoneurological Problems of Patients
Differential Diagnosis
Consultation with Specialist
Home Visit
Home Visit
Home visit
Acute Cases in Practice
The most Common Acute Cases
Examination in Acute Case
Differential Diagnosis in Acute Case
Therapy in Acute Case
Therapy, Giving Injections
Mini Doppler Examination
Follow Up- Diabetes Mellitus
Patient Follow Up
Follow-up- Hypertension
Follow-up - Metabolic Syndrome
Educating Patients
Informing Patients and Relatives
Patient Rehabilitation
Duty Work
Organising Home Nursing
Administration of Medication - Opiats and Narcotic Drugs
Preventions and Patient Educations
Doses and the Side Effects of Drugs
Pregnant Care
Dying Patients Care, Palliative Care at Home

Seminars

Exam topics/questions

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

Documentation on patient care (diagnostic and therapeutic plan, patient file, referral, evaluation of test results, complete medical documentation, final report)

Examination of a dead person, post-mortem examination, initiating autopsy

Faecal occult blood test

Home medical care of patient

Internal Medicine history taking and physical examination, case history (inspection of the patient, examination of the nose, pharynx and the oral cavity, inspection of the mucous membranes, palpation of the salivary glands, palpation of the lymph nodes, inspection and palpation of the skin, examination of turgor and edema, examination of the thorax, examination of apical beat, percussion of cardiac boundaries, auscultation of the heart sounds, murmurs, palpation, percussion, auscultation of the abdomen, palpation of the liver and the spleen, rectal digital examination, palpation of thyroid gland, pectoral fremitus, examination of the pulse, lung boundaries, excursion of the diaphragm, auscultation, percussion of the lungs, measurement of blood pressure, palpation of the kidneys, measurement of somatometric data, assessment of genital developmental condition, assessment of psychological and social health condition)

Recording and evaluating an ECG
Participants

Dr. Csikós Ágnes Erika (W4RUXY), Dr. Somogyi Lászlóné (Dr. Végh Mária) (MLL7EL)
**OAS-GYE-T**  
**PAEDIATRICS**

**Course director:**  
**DR. KATALIN OHMACHT-HOLLÓDY, associate professor**  
Department of Paediatrics, hollody.katalin@pte.hu

6 credit • final exam • Final/Rotational (year) subject • both semesters • recommended semester: 11

**Number of hours/semester:**  
0 lectures + 180 practices + 0 seminars = total of 180 hours

**Course headcount limitations (min.-max.):**  
5 – 250

**Prerequisites:**  
completed Basic, Preclinical and Clinical modules completed

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

**Topic**

The primary aim of the six-week bedside practice (including one week for the examination) of the sixth year students is to attach theoretical knowledge to the practical one, furthermore to get some experiences in the most common manual activities at least at a basic level. Another task during that time is to observe and take part in the practical management of the most common paediatric diseases, both at the hospital and after discharge.

**Conditions for acceptance of the semester**

Oral exam. Before the oral exam a practical examination of a patient has to be done. Oral exam requires a successful practical exam. The student is expected to act in the ward if he/she was a newly graduated young staff member, of course under proper supervision. The student’s working hours is the same as that of the doctors. After the first three weeks he/she should participate in the duty service.

**Mid-term exams**

During the practice

**Making up for missed classes**

It can be accepted only in very special cases.

**Reading material**

- **Obligatory literature**
- **Literature developed by the Department**
  - slides of the lectures
  - The summaries of the lectures are available on the homepage of the department: [http://aok.pte.hu/en/egyseg/dokumentumok/350](http://aok.pte.hu/en/egyseg/dokumentumok/350)
- **Notes**
- **Recommended literature**

**Lectures**

**Practices**

1-180 Bedside practice

**Seminars**

**Exam topics/questions**

The list of the questions is available on the homepage of the department: [http://aok.pte.hu/en/egyseg/dokumentumok/350](http://aok.pte.hu/en/egyseg/dokumentumok/350)

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

Paediatric history taking and physical ex-am-i-na-tion at infants, children, new-born babies. (General condition, development, state of nourishment, measurement of somatometric data. Examination of the skin, of the turgor, oedema. Examination of the mucous mem-branes. Examination of the ear, nose, oral cavity pharynx and tongue. Chest ex-am-i-na-tion. Auscultation and percussion of the lungs. Heart sounds, heart murmurs, pulse, capillary function, palpation of the a. femo-ra-lis. Palpation of the abdomen, aus-cul-ta-tion of intestinal sounds. Ex-am-i-na-tion of the navel. Palpation of the liver and spleen. Examination of the urogenital organs. Examination of meningeval signs, focal neurological signs, reflexes)

**Participants**

Dr. Erhardt Éva (GRJ7QG), Dr. Farkas András (KJP7BA), Dr. Mosdósi Bernadett (T60WMG), Dr. Oberritter Zsolt (RWFSB6), Dr. Ohmachné Dr. Hollódy Katalin (EC7T1L), Dr. Péleyné Dr. Mohay Gabriella (DDP19E), Dr. Štankovics József (JLMUL5), Dr. Tárnok András (AHVLPB), Dr. Vajda Péter (UUZITA), Dr. Vástyán Attila (UGFXWA)
**Course director:**

DR. ENDRE PÁL, associate professor
Department of Neurology, pal.endre@pte.hu

**Course description:**

- **Subjects:** OAS-NEU-T Neurology
- **Subject code:** 4 credit • final exam • Final/Rotational (year) subject • both semesters • recommended semester: 11
- **Number of hours/semester:** 0 lectures + 100 practices + 20 seminars = total of 120 hours
- **Course headcount limitations (min.-max.):** 5 – 130

**Prerequisites:**
completed Basic, Preclinical and Clinical modules completed

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

**Topic**

The aim of the period is to synthetize the previously obtained knowledge. Students have to perform the neurological physical examinations individually and they have to evaluate the neurological findings. Based on the history taking and physical signs, they need to plan further studies examinations to stand up the diagnoses. Finally, students need to indicate therapy for the examined patients.

**Conditions for acceptance of the semester**

Maximum of 15 % absence allowed

**Mid-term exams**

According to Study and examination regulations

**Making up for missed classes**

Extra scheduled practices.

**Reading material**

- **Obligatory literature**
- **Literature developed by the Department**
- **Notes**
  - Physical examination
    - [http://neurology.hu/physicalexamination.pdf](http://neurology.hu/physicalexamination.pdf)
- **Recommended literature**
  - Books
    - Hankey’s Clinical Neurology 2014
    - Neurology: A Queen Square Textbook 2009
    - Oxford Handbook of Neurology 2014

**Lectures**

**Practices**

1-100 Physical examination, ENG and EMG examination, case presentation,
  - Physical examination, EEG examination, case presentation,
  - Physical examination, doppler examination of carotid arteries, case presentation,
  - Physical examination, doppler examination of carotid arteries, case presentation
  - Physical examination, CT and MRI examination, case presentation

**Seminars**

1 Diagnostics of CSF I.
2 Diagnostics of CSF II.
3 EP studies in different neurological diseases I.
4 EP studies in different neurological diseases II.
5 EMG studies in different neurological diseases I.
6 EMG studies in different neurological diseases II.
7 ENG studies in different neurological diseases I.
8 ENG studies in different neurological diseases II.
9 The role of EEG in epilepsy diagnostics I.
10 The role of EEG in epilepsy diagnostics II.
Management of headaches in daily clinical practise I.
Management of headaches in daily clinical practise II.
Extrapyramidal disorders I.
Extrapyramidal disorders II.
Neuroimmunological diseases I.
Neuroimmunological diseases II.
Sleep disorders I.
Sleep disorders II.
Muscle disorders I.
Muscle disorders II.

Exam topics/questions

The final exam consists of two parts:

1. Practical (bedside) exam: taking history, evaluation of the neurological physical exam
2. Theoretical (oral) exam: questions A+B+C

Oral exam questions:
A: An important neurological diagnostic procedure (basics, indications, evaluation, risks).
B: Interpretation of an important/common neurological disorder (Proper definition, the knowledge of epidemiology, pathomechanism, neuropathology, clinical symptoms are required.)
C: Treatment of an important neurological disorder.

„A” questions
Main points of the neurological history
Cerebrospinal fluid tests
Ultrasonography in neurology (extra- and intracranial blood vessels)
CT
MRI
EEG
EMG and ENG
Polysomnography
Muscle biopsy

„B” questions
Clinical importance of transient ischemic attack
Acute hypertensive encephalopathy, reversible posterior leukoencephalopathy syndrome
Acute ischemic stroke
Symptoms of stroke
Hemorrhagic stroke
Subarachnoidal hemorrhage. Vascular malformations
Thrombosis of intracranial sinuses
Types of epileptic seizures
Convulsive syncope
Grand mal and postictal symptoms
Causes of acute epileptic seizures
Idiopathic (genetic) epilepsies
Temporal lobe epilepsy
Definition of epilepsy and epileptic seizure
Status epilepticus
Traumatic brain injuries
Differential diagnostics of loss of consciousness
Causes of vertigo
Specific and non-specific back pain, failed back syndrome
Ischias syndrome, cervicobrachialgia (symptoms, warning signs)
Carpal tunnel syndrome
Primary headaches
Secondary, symptomatic headaches
Examination of patients suffering from headache
Neuralgias
Neuropathic pain
Bell’s palsy
Multiple sclerosis
Myasthenia gravis
Guillain-Barre syndrome and CIDP
Polyneuropathies
Parkinson’s disease
Parkinson-plus syndromes
Drug-induced movement disorders
Wilson’s disease
Dystonias
Alzheimer’s disease and other types of dementias
Potentially reversible dementias
Herpes simplex encephalitis
Encephalitis
Meningitis, cerebral abscess
Lyme disease
Neurosyphilis
Herpes zoster
Neurological complications of HIV infection
Prion diseases
Migraine
Tension headache
Raised intracranial pressure
Amyotrophic lateralsclerosis (ALS)
Dermatomyositis, polymyositis
Huntington disease
Paraneoplastic syndromes
Autoimmune encephalitis
Obstructive sleep apnoe syndrome (OSAS), restless legs syndrome, narcolepsy
Neurological consequences of alcoholism
Drugs and nervous system
Schwartz-Barter-syndrome („Syndrome of inappropriate antidiuretic hormone section” - SIADH)
Essential tremor
Primary brain tumors
Brain metastases
Differential diagnosis of vertigo
Autoimmune inflammatory myopathies and metabolic myopathies
Characteristic symptoms of myopathies, the most common types of hereditary muscle diseases
Functional neuroanatomy of urination, neurogenic causes of bladder dysfunction
Neuromyelitis optica
Minor neurocognitive deficiency
Neurocutaneous diseases (phacomatoses): sclerosis tuberosa, neurofibromatosis
Raised intracranial pressure and herniations
Motor neuron disorders (ALS, SMA, SPG)
Benign paroxysmal positional vertigo (BPPV)
Phobic vertigo
Acute and chronic disturbances of memory

„C” questions
Treatment of multiple sclerosis
Drug and surgical treatment of epilepsy
Treatment of epileptic status
Treatment of myasthenia gravis
Treatment of myasthenic crisis
Treatment of sleep apnoe syndrome
Treatment of restless legs syndrome
Treatment of primary headaches
Treatment of polyneuropathies
Treatment of ischemic stroke
Treatment of hemorrhagic stroke
Anticoagulation
Thrombolysis
Thrombectomy
Primary and secondary prevention of stroke
Treatment of subarachnoidal hemorrhage
Risk factors of stroke and their treatment
Management strategy in case of acute unconsciousness
Therapy of brain edema
Drug treatment of Parkinson’s disease
Surgical treatment of Parkinson’s disease
Treatment of traumatic brain injuries
Treatment of herpes infections
Therapy of meningitis
Treatment of Guillain-Barre syndrome
Therapy of dystonias
Therapy of nociceptive and neuropathic pain
Treatment of lumboischialgia and cervicobrachialgia
Drug treatment of urinary incontinency
Therapy of acute bacterial meningitis
Treatment of hyponatremia
Treatment of patients suffering from vertigo
Therapy of Wernicke’s encephalopathy
Deep brain stimulation

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

Neurological history taking and physical examination, preparation of a diagnostic and therapeutic plan, evaluation of test results, compilation of patient documentation

Participants
Dr. Bosnyák Edit (JFCAK1), Dr. Cseh Tamás (DFZWPQ), Dr. Faludi Béla (FCGCJ5), Dr. Juhász Annamária (FJNN57), Dr. Kovács Norbert (WAN9RH), Dr. Lovadi Emese (JCISJF), Dr. Pál Endre (MX35ZM), Dr. Pfund Zoltán (DM3EAH)
OAS-OXY-T  EMERGENCY MEDICINE

<table>
<thead>
<tr>
<th>Course director:</th>
<th>DR. LAJOS BOGÁR, professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Anaesthesiology and Intensive Therapy, <a href="mailto:bogar.lajos@pte.hu">bogar.lajos@pte.hu</a></td>
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2 credit • midsemester grade • Final/Rotational (year) subject • both semesters• recommended semester: 11

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<tr>
<td>Prerequisites:</td>
<td>completed Basic, Preclinical and Clinical modules parallel</td>
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The subject can only be registered in case of a PASSED and valid health aptitude test!

**Topic**

Short description of the curriculum:
The sixth year students will have to practice the elements of advanced life support during a 24 hour practice (maintaining free airway, cardiopulmonary resuscitation, treatment of life-threatening rhythm troubles on mannequin, peripheral venue-cannulation, oxygen therapy and monitoring of basic parameters in operating theater). The students will have to assist the ambulance team and provide emergency treatment to 10 acutely ill patients at the Ambulance System.

Goals of the course in relation to the medical curriculum:
The discipline will provide final and comprehensive practice on acute lifesaving methods during the final year of the medical curriculum.

**Conditions for acceptance of the semester**

Maximum 2 days absence.

**Mid-term exams**

Making up for missed classes

The student can join other group for the supplementation.

**Reading material**

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

**Lectures**

**Practices**

1-60 Endotracheal intubation on mannequin - 2 hour
Cardiopulmonary resuscitation practice on mannequin - 3 hours
Treatment of life-threatening rhythm troubles. Practice on mannequin - 3 hours
Maintaining free airways, peripheral venue-cannulation, oxygen therapy and monitoring of basic parameters in operating theater - 16 hours
Patients emergencies in the Ambulance System (10 cases) - 56 hours

**Seminars**

**Exam topics/questions**

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

Arterial puncture
Artificial respiration using a face mask at adults
Assembling infusion, use of infusion therapy
Basic life support (BLS)
Complex cardiopulmonary resuscitation (advanced life support, ALS)
Endotracheal intubation at adults
Introduction of a laryngeal mask at adults
Puncture and cannulation of peripheral vein in adults
Participants

Dr. Almási Róbert Gyula (E53FZZ), Dr. Bátaı István (BUPVV7), Dr. Bogár Lajos (GFXUIJ), Dr. Csontos Csaba (WC976J), Dr. Jáksó Krisztían (Z2BB6Q), Dr. Kiss Tamás (QHOYT9), Dr. Márton Sándor (EQGXIT), Dr. Molnár Tihomér (CL7SSP), Dr. Nagy Bálint János (B8MX1K), Dr. Sütő Balázs (QR1UFB), Dr. Szabó Péter (F975FS), Dr. Szabó Zoltán (UC1A4J), Dr. Szűcs Szilárd (DL0KX8), Dr. Toldi János (BRAXAA), Dr. Töth Krisztina (Z7A1B4), Dr. Vámos Zoltán (GWDAB7)
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<th>OAS-PSZ-T</th>
<th>PSYCHIATRY</th>
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<tr>
<td><strong>Course director:</strong></td>
<td><strong>DR. TAMÁS TÉNYI, professor</strong></td>
</tr>
<tr>
<td><strong>Department of Psychiatry and Psychotherapy, <a href="mailto:tenyi.tamas@pte.hu">tenyi.tamas@pte.hu</a></strong></td>
<td></td>
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</table>

4 credit • final exam • Final/Rotational (year) subject • both semesters • recommended semester: 11

- **Number of hours/semester:** 0 lectures + 120 practices + 0 seminars = total of 120 hours
- **Course headcount limitations (min.-max.):** 5 – 150
- **Prerequisites:** completed Basic, Preclinical and Clinical modules completed

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

**Topic**

**Requirements**
To acquire the knowledge and skills of clinical psychiatry in the general practice

**Themes:**
- The essential psychopathological symptoms and syndromes
- The treatment of the ill patient’s emotional responses
- Psychological first aid and psychiatric emergencies in crisis and stress situations
- Exploration, evaluation of the psychiatric patients
- Biological and psychological therapeutic interventions
- Prevention and postvention of psychiatric disorders
- Psychiatric care and mentalhygicnic activity in the general practice (Psychiatric interview in Hungarian)

**Practices (first and second semesters)**
- Psychiatric evaluation (interview, psychiatric history, mental status examination) /2 x 2 hrs/
- Anxiety disorders (anxiety, phobias, obsessive compulsive disorder, panic disorder) /2 x 2 hrs/
- Conditions which mimic physical disease (somatisation disorders, conversion disorder, hypochondriasis, somatoform pain disorder) /2 x 2 hrs/
- Psychosomatic disorders /2 x 2 hrs/
- Psychosexual disorders/dysfunction and paraphilia /2 hrs/

**Practices:**
- Observation, description and evaluation of the patients’ behaviour

**Conditions for acceptance of the semester**
According to the Code of Studies and Examinations.

**Mid-term exams**
TVSZ szerint

**Making up for missed classes**
According to the Code of Studies and Examinations.

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

**Lectures**

| 1-38 | Examination of Psychiatric Patients |
| 39-58 | Psychopathology |
| 59-79 | Differential Diagnosis of Psychiatric Patients |
| 80-99 | Biol therapies of Psychiatric Patients |
| 101-120 | Psychological therapies of Psychiatric Patients |

**Seminars**
Exam topics/questions

(Updated on September 02, 2014)

1. The steps of psychiatric anamnesis
   - Panic disorder
   - Crisis-intervention

2. The main parts of mental status
   - Classification and differential diagnosis of somatoform disorders
   - Complex treatment of depressive disorders

3. Disturbance of perception
   - Factitious and impulse-control disorders
   - Lithium treatment in psychiatry

4. Disturbance of orientation
   - Dissociative disorders
   - Antipsychotics

5. Disturbance of memory
   - Adjustment disorders and psychological crisis
   - Biological treatment in psychiatry (ECT, light-therapy, sleep-deprivation, TMS, psychosurgery)

6. Disturbance of thinking
   - Symptomatology, differential diagnosis and treatment of alcohol withdrawal
   - Imaginative and relaxation therapies

8. Disturbance of attention
   - Etiology, symptomatology and treatment of vascular dementia
   - Client-centered psychotherapy (Rogers)

9. Etiology, symptomatology and diagnosis of mood-disorders
   - Classification, prognosis and differential diagnosis of schizophrenia
   - Cognitive and behaviour psychotherapies

10. Symptomatology, etiology and differential diagnosis of delirium
   - Diagnosis and treatment of delusional disorder
   - Types and indication of family therapies

11. Disturbance of motor behaviour
    - Cyclothymia, dysthymia (symptomatology, diagnosis and treatment)
    - Types and indication of psychoanalytic therapies

12. Cataton symptoms
    - Classification, diagnosis, and treatment of psychosomatic disorders
    - Antidepressants - indication, effects and side-effects

13. Types of delusions
    - The main factors of suicidal behaviour from neurobiology to culture
    - Anxiolytics - indication, effects and side-effects

14. Disturbances of judgment and insight
    - Pathological grief reaction
    - Complex treatment of alcohol withdrawal delirium

15. Disturbance and examination of cognitive functions
    - Symptomatology, diagnosis and treatment of schizoaffective psychosis
    - Mood stabilisers - indication, effects and side-effects

16. Types and etiology of anxiety
    - Symptomatology, diagnosis and treatment of bipolar disorder
    - Complex therapy of schizophrenia

17. Presuicidal syndrome and cry for help
    - Opiates related mental disorders
    - Sedatives in psychiatry - indication, effects and side-effects

18. Diagnosis of manic symptoms
    - Symptomatology, diagnosis and treatment of Alzheimer- dementia
    - Types and indication of group therapies

19. Symptomatology, diagnosis and treatment of depressive disorders
    - The main causes of psychiatric emergency
    - Complex treatment of alcohol addiction
20. Types and function of coping mechanisms
   Classification and etiology of mental retardation
   Types and indication of dynamic psychotherapies
21. Types, etiology and differential diagnosis of hallucinations
   Symptomatology, diagnosis and treatment of eating disorders
   Benzodiazepines in psychiatry - indication, effects and side-effects
22. Positive and negative symptoms of schizophrenia
   Brief reactive psychosis
   Pharmacotherapy of mania
23. Disturbance of integrity of consciousness
   Avoidant, dependent and obsessive personality disorders
   Complex therapy of phobias
24. Types and symptomatology of phobias
   Classification of mental disorders
   Types and indication of cognitive and behaviour psychotherapies
25. Disturbance of vigility of consciousness
   Types and treatment of sexual dysfunctions
   Complex treatment of panic disorder
26. The main factors of emergency psychiatry
   Diagnosis and treatment of obsessive-compulsive disorder
   Diagnosis and treatment of pathological alcohol intoxication
27. Types, diagnosis and treatment of sleep-wake disorders
   Classification of mental disorders in childhood
   Psychodrama in psychiatry
28. Differential diagnosis of depersonalisation
   Symptomatology, diagnosis and treatment of alcohol related hallucinosis
   The most important features and forms of psychotherapy
29. Psychoanalytic theory of personality development
   Alcohol related amnestic disorder (Korsakow syndrome)
   Types, diagnosis and treatment of suicidal behaviour
30. Types of conversion
   Psychopathological symptoms caused by somatic and neurological disorders
   Supportive psychotherapy
31. Types of illusions
   Depression and psychosis in elderly
   The main features of insight-oriented psychotherapies (psychodynamic therapies)
32. Psychosocial personality development theory (Erikson)
   Alcohol related mental disorders
   Neurobiological background of psychopharmacological treatment
33. The main symptoms of organic mental disorders
   Hypochondriasis
   Large group in the therapeutic community
34. Classification of personality disorders
   Sedatives addiction
   Rehabilitation and sociotherapies in psychiatry
35. Differential diagnosis of psychosis and neurosis
   Delusional, schizoid and schizotypal personality disorders
   The examination and treatment of aggressive patients
36. Types and differential diagnosis of mood disorders
   Narcissistic, borderline, hysterionic and antisocial personality disorders
   The examination and treatment of desorientated patient
37. Types and differential diagnosis of amnesia
   Perinatal psychiatry
   Complex treatment of personality disorders
38. Epidemiology and etiology of schizophrenia
   Cannabis and cocaine related mental disorders
   Alexithymia in mental disorders
39. Types and symptomatology of schizophrenia
   Psychostimulants related mental disorders
   Consultation and liaison psychiatry

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

Psychiatrical history taking and physical examination, preparation of a diagnostic and therapeutic plan, evaluation of test results, compilation of patient documentation

**Participants**

Dr. Fekete Sándor (SLBJBN), Dr. Hajnal András Sándor (WGQM5K), Dr. Herold Róbert (TS5WPZ), Dr. Kovács Attila (KSHEIO), Dr. Osváth Péter (MZZDY4), Dr. Tényi Tamás (A3VAD8), Dr. Vörös Viktor (V4AZUR)
OAS-SET-T | SURGERY - TRAUMATOLOGY

<table>
<thead>
<tr>
<th>Course director:</th>
<th>DR. ANDRÁS GÁBOR VERECZKEI, professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery Clinic</td>
<td><a href="mailto:vereczkei.andras@pte.hu">vereczkei.andras@pte.hu</a></td>
</tr>
</tbody>
</table>

6 credit • Final exam • Final/Rotational (year) subject • both semesters • recommended semester: 11

**Number of hours/semester:**
- 0 lectures + 180 practices + 0 seminars = total of 180 hours

**Course headcount limitations (min.-max.):**
- 1 – 200

**Prerequisites:**
- completed Basic, Preclinical and Clinical modules completed

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

**Topic**

VI. year students fulfil their famulature in a rotational system lasting 5 weeks touching on all profiles of the clinic. One additional week is calculated for the final exams, so the famulature includes altogether 6 weeks. Gradually they will be fully authorized to receive new patients on admission, write in the files, and participate in theatre activities as a second hand. Participation in outpatient ambulance activities and in the duty service is also required.

Restructuring the traditional trauma curriculum, our students acquire not only the basic theoretical and clinical expertise, they need to become successful physicians and also acquire the adaptability skills, and flexible attitudes to become lifelong learners. These include:
- a problem-based approach to learning in which fundamental medical concepts are mastered, not only by memorizing textbooks but more through the analysis of real patient cases;
- a strong emphasis on exploring the patient-doctor relationship and locating modern medical practices in its social context;

The curriculum of traumatology is designed to assist students in achieving the following educational goals:
- Establish a knowledge base grounded in scientific principles and apply this knowledge effectively for the benefit of patients and populations.
- Acquire the skills and abilities needed to evaluate and treat his/her patients appropriately.

The course is designed to instruct students in the clinical examination, investigation and management of common injuries so that at the end of their period they will be able to deal with common problems and complications, and will realize when more expert help is needed. Students will be involved in the assessment and treatment of widespread traumatological problems as part of the team. They will take part in the ward rounds, conferences and discussions of the unit.

**Conditions for acceptance of the semester**

The 6 weeks rotational famulature prior to the final exam is obligatory. To perform it on abroad a special consent is needed from the educational office and the head of the clinic, respectively.

**Mid-term exams**

There is none.

**Making up for missed classes**

Un fulfillment involves loss of the right to sign up for the final exam.

Absences should be compensated in registered fashion.

**Reading material**

- **Obligatory literature**
  - D. Dandy, D. Edwards: Essential Orthopaedics and Trauma, Churchill Livingstone, Edinburgh London
- **Literature developed by the Department**
- **Notes**
- **Recommended literature**

**Lectures**
Practices

1-180 Assist nursing and postoperative patient care in the thoracic-surgical unit
   Installation of wound drainage
   Change of wound dressing
   Participation in OP theatre activities
   Assist nursing and postoperative patient care in the vascular unit
   Postoperative care of thoracic surgical patients
   Examination of peripheral limb circulation (Doppler, colour Doppler, angigrams, etc.)
   Participation in OP theatre activities, laparoscopic interventions.
   Assist nursing and postoperative patient care in general surgery
   Postoperative pain management, administration of antibiotics and laxatives
   Catheterism, placing of NG tube and venous cannula
   Participate in surgical interventions and attendance to daily rounds
   Assist nursing and postoperative patient care on the ward for colorectal diseases
   Preoperative preparation of large bowel
   Assist at colostoma care and change of wound dressing
   Participation at large bowel resection, colectomies
   Assist nursing and postoperative patient care on the ward for GI diseases
   Postoperative care of gastrectomy patients
   Follow up of the clientele operated on for esophageal cancer and carcinoma of the stomach

Seminars

Exam topics/questions

Final exam questions.

-----------------------------

Group A:
1. Postoperative disturbances of wound healing
2. What is the difference between embolism and thrombosis?
3. The operative risk
4. Types of wounds, primary wound management.
5. General symptoms of tumors
6. Asepsis and antisepsis, nosocomial infections
7. Investigation of patients with peripheral occlusive vascular disease in the outpatient ambulance.
11. The routes of spread of malignant tumors.
12. Abdominal ischemia.
13. Treatment modalities of tumor patients in general.
15. X-ray signs in the abdomen.
17. Blunt injuries of the abdominal wall. Penetrating trauma to the abdomen.
19. Methods of local anesthesia/conduction anesthesia, regional anesthesia/
20. The most frequent pyogenous infections.
21. The use of antibiotics in surgery and ways of administration.
22. Parenteral nutrition.
23. Hemoptoe, hematemesis
24. Precancerosis and its types.
25. Physical signs of the acute abdomen.
27. Postoperative complications, and their treatment, prevention

B questions (special surgery):
1. Surgical diseases of the anorectum
2. Hyperparathyroidism.
3. Intraabdominal abscesses.
4. Hernias in general.
5. Acute appendicitis.
10. Surgical treatment of adrenal tumors.
11. The acute deep venous thrombosis.
12. Diverticulosis and diverticulitis
17. Natural history and complications of gastro-duodenal ulcers.
18. Malignant tumors of the stomach.
19. Types of ileus and their symptomatology.
20. Diagnostic work-up of mammary tumors.
22. Adenocarcinoma of the esophagus.
24. Treatment of gastro-esophageal reflux, its clinical manifestation and etiology.
25. Surgical management of lung cancer
26. Inflammatory bowel disease/IBD/ and surgical treatment options.
27. Frequent complications following thyroid surgery.
29. Complications related to postthrombotic syndrome and their management.
31. Mesenterial vascular occlusions.
32. Diagnostic modalities of an esoophageal disease.
33. Enterostomies (colostomies, ileostomy) and their indications.
34. Perianal abscesses and fistulae. Surgical management of hemorrhoids.
35. Bilio-digestive anastomoses.
36. Primary varicosity of the lower limbs.
37. Peritonitis: causes, therapy, complications
39. Benign tumors and cysts of the liver.
40. Malignant lesions of the liver and their surgical management.
41. Diseases of the chest wall. Tumors of the mediastinum.
42. Acute abdomen, differential diagnosis.
43. Thoracic empyema and infective thoracic disorders
44. Surgery of metastases.
46. Surgical aspects of hyperthyroidism.
47. Palliative surgery in pancreatic and periampullary tumors.
50. Basic principles of immunosuppressive treatment following organ transplantation.
51. Early and late complications following kidney transplantation.
52. Indications for liver and pancreas transplantation.
53. Treatment options and surgical indications for acute pancreatitis.
54. Surgery for chronic pancreatitis.
55. Symptomatology and surgical management of pancreatic tumors.
56. Morbid obesity, and bariatric surgery

Exam questions of the subject Traumatology:
These questions are compiled by the medical staff of the Trauma Center and you should browse for them on the WEBSITE of the Traumatology Clinic.
Information – The following skills of the Booklet for Clinical Skills shall be accomplished in the framework of the subject

- Diagnosis and management of pneumothorax
- Emergency ultrasound, focused assessment with sonography for trauma (FAST)
- Infiltrational anaesthesia
- Intraosseous cannulation
- Laparoscopic operation
- Placement of a nasogastric tube
- Pleural tap (thoracic puncture), insertion of pleural drain
- Preoperative preparation, hand disinfection, preparation of the operative field, dressing up for operation, assisting
- Proctologic and anal operation
- Stoma care
- Surgical history taking and physical examination, preparation of a diagnostic and therapeutic plan, evaluation of test results, compilation of patient documentation
- Thoracic and abdominal surgical interventions
- Traumatological history taking and physical examination, preparation of a diagnostic and therapeutic plan, evaluation of test results, compilation of patient documentation
- Wound evaluation, care and dressing of a wound
- Wound treatment with surgical suture

Participants

Dr. Baracs József (ITMT7Q), Dr. Ember Ágoston (WM3H3F), Dr. Ferencz Sándor (BTRS8O), Dr. Horváth Örs Péter (D8LFMA), Dr. Kalmár Nagy Károly (AOZ34R), Dr. Kelemen Dezső Tamás (XZG1E9), Dr. Kondor Ariella (H2RQ2S), Dr. Kovács Gyula (AFCRHH), Dr. Lukács László (OSSPZ5), Dr. Papp András (GXCABS), Dr. Papp Róbert (HCU5UF), Dr. Pavlovics Gábor (DW0P7B), Dr. Szakály Péter (OXSUAB), Dr. Szántó Zalán János (HEAFHI), Dr. Vereczkei András Gábor (FU43H1), Dr. Zapf István Tamás (DK4LIE)
# Obstetrics and Gynaecology

**Course director:** DR. MIKLÓS ENDRÉ KOPPÁN, professor
Department of Obstetrics and Gynaecology. koppan.miklos@pte.hu

<table>
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<tr>
<th>6 credit</th>
<th>final exam</th>
<th>Final/Rotational (year) subject</th>
<th>both semesters</th>
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The subject can only be registered in case of a PASSED and valid health aptitude test!

## Topic

The course covers all practical aspects of obstetrics and gynaecology. Students take part in the daily routine work of different wards:
- Intensive care unit
- Gynaecology ward
- Delivery room, maternity ward, NIC
- Pathological pregnancy ward
- Outpatient dept.
- Gynaecological oncology ward
- Operating theaters

The main goal of this course is to improve the students’ skill in ob/gyn practice.

## Conditions for acceptance of the semester

For obtaining exam licence a minimum of 180 hours should be completed. Moreover, the signature of chief doctors of different wards should also be obtained.

**Examination:** final exam with two parts (practical and theoretic part)

### Mid-term exams

---

**Making up for missed classes**

180 hours should be completed.

## Reading material

- **Obligatory literature**
- **Literature developed by the Department**
  - Material prepared by faculty of department - materials of lectures and practices in PDF
- **Notes**
- **Recommended literature**
  
  [www.acog.org](http://www.acog.org)

## Lectures

### Practices

1-180  Practice is done in a rotational system

## Seminars

**Exam topics/questions**

Obstetrics, Group „A”:
1. Stages of labour
2. Lactation, mastitis
3. Classification of abortions, etiology, therapy options
4. Forms of cesarean delivery, indications
5. Operative vaginal delivery: forceps and vacuum-extraction
6. Premature rupture of membranes
7. Prolapse of umbilical cord and fetal limb
8. Signs and differential diagnosis of pending uterine rupture and placental abruption
10. Placenta praevia  
11. Maternal obstetrical injuries  
12. Uterine atony  
13. Uterine rupture  
14. DIC, HELLP, amniotic fluid embolism  
15. Puerperal fever and sepsis  

Obstetrics, Group „B”:  
1. Diagnosing pregnancy  
2. Conception, implantation  
3. Placenta accreta, increta and percreta  
4. Fetal lie. Assessing fetal lie  
5. Non-stress test and stress test  
6. Infectious diseases during pregnancy (hepatitis, HIV, toxoplasmosis, syphilis, Group B Streptococcus)  
7. Prenatal diagnostics I. (invasive methods)  
8. Prenatal diagnostics II. (non-invasive methods)  
9. Fetal monitoring during labor (CTG, fetal blood gas analysis)  
10. Disturbances of the feto-maternal gas transport during labor  
11. Obstetrical analgesia and anaesthesia  
12. Resuscitation of the neonate, the Apgar-score  
13. Legal regulation of pregnancy interruption, methods and complications  
14. Diagnosis and pathomechanism of hydramnios and oligohydramnios  
15. Intrauterine growth restriction (IUGR)  
16. The mechanism and the prevention of Rh-isoimmunisation, erythroblastosis fetalis  
17. Pregnancy induced hypertension and preeclampsia  
18. Diabetes and pregnancy (screening and management)  
19. Multifetal gestation, twin delivery  
20. Cervical incompetence; etiology, diagnosis and therapy  
21. Threatened preterm delivery; pathomechanism, management  
22. Intrapartum management of preterm delivery  
23. Daytime delivery and induced labor  
24. Overdue and postterm pregnancy  
25. Abnormalities of the fetal position  
26. Abnormalities of the fetal engagement  
27. Fetal rotational anomalies  
28. Breech presentation, transverse lie  
29. Vaginal delivery after prior uterine surgery  
30. Pyelitis in pregnancy  

Gynaecology, Group „A”:  
1. Amenorrhea; classifications, diagnosis and therapy  
2. Bleeding disorders; types and diagnosis  
3. Uterine fibroids; types, diagnosis and therapy  
4. Benign adnexal masses; classification, diagnosis and therapy  
5. Adnexal inflammatory diseases; diagnosis, differential diagnosis, and therapy  
6. Postmenopausal bleeding  
7. Premalignant disease and carcinoma in situ of the uterine cervix; diagnosis and therapy  
8. The role of HPV in the pathomechanism of gynecologic malignancies; HPV vaccination  
9. Cervical cancer; symptoms and diagnosis  
10. Endometrial cancer: symptoms and diagnosis  
11. Ovarian cancer: classification, symptoms and diagnosis  
12. Acute abdomen in gynecology  
13. The criteria and the potential complications of IUD usage  
14. Hormonal contraception: indications, contraindications, positive effects and potential complications  
15. Menopause
Gynaecology, Group „B”:
1. Genital fistulas: pathomechanism, diagnosis and therapy
2. Congenital anomalies of the genital tract (diagnosis and therapy)
3. Indications and methods of hysterectomy
4. Functional diagnostics of the ovarian capacity, cycle diagnostic
5. Intersexuality, gonadal dysgenesis
6. Physiology of puberty and menarche
7. The most common childhood gynecological diseases
8. Vulvar and vaginal inflammatory disorders and their treatment
9. Endometriosis: pathophysiology, classification, symptoms and diagnosis
10. Treatment of endometriosis
11. Hyperandrogenic disorders, PCOS
12. Infertility: classifications and diagnosis
13. Treatment of infertility (ovulation induction therapy, AIH, IVF, ICSI)
14. Ovarian hyperstimulation syndrome
15. Sexually transmitted diseases (STD)
16. Hormone replacement therapy guidelines, indications, contraindications, side effects
17. Pelvic organ prolapse: symptoms and diagnosis
18. Pelvic organ prolapse: therapy
19. Urinary incontinence and treatment
20. Endometrial cancer: FIGO classification and therapy
22. Hydatiform mole: symptoms, types, endocrinology and therapy
23. Gestational trophoblast neoplasia (invasive mole, choriocarcinoma): diagnosis and therapy
24. Gonadal ovarian tumors
25. Tumor markers of malignant ovarian cancer. Diagnosis and treatment of borderline ovarian cancer.
26. Malignant ovarian cancer: operative treatment, chemo- and radiation therapy
27. Premalignant and malignant vulvar diseases (VAIN, VIN)
28. Diagnostic and operative hysteroscopy
29. Laparoscopy in gynecology
30. Modern contraceptive methods

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

Gynaecological history taking and physical examination, preparation of a diagnostic and therapeutic plan, evaluation of test results, compilation of patient documentation

Participants
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