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<tr>
<th>Module/Course</th>
<th>Internal Diseases (3)</th>
<th>Group of detailed education results</th>
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<tr>
<td>Specialties</td>
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<tr>
<td>Level of studies</td>
<td>Uniform magister studies X</td>
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<td>1st degree studies ☐</td>
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<td>Form of studies</td>
<td>X full-time ☑</td>
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<tr>
<td>Type of course</td>
<td>X obligatory ☑</td>
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<td>☐ limited choice ☐</td>
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<td>☐ free choice / elective ☐</td>
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<tr>
<td>Course</td>
<td>X major ☑ basic ☐</td>
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<td>Language of instruction</td>
<td>☐ Polish ☑ English ☐ other</td>
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<td>* mark ☐ with an X</td>
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<td>Form of education</td>
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<th>Unit teaching the course</th>
<th>Lectures (L)</th>
<th>Seminars (S)</th>
<th>Major Classes (MC)</th>
<th>Clinical Classes (CC)</th>
<th>Laboratory Classes (LC)</th>
<th>Classes in Simulated Conditions (CCS)</th>
<th>Practical Classes with Patient (CPP)</th>
<th>Specialist Classes - magister studies (SCM)</th>
<th>Physical Education obligitory (PE)</th>
<th>Vocational Practice (VP)</th>
<th>Self-Study Student's own work</th>
<th>Exam (E)</th>
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**Educational objectives (max. 6 items)**

C1. To acquire the knowledge of taking history and performing physical examination in adult patient.
C2. To acquire the knowledge of the symptomatology of hormonal, haematological, cardiovascular, occupational, rheumatoid, digestive system and nephrology disorders in adult patients.
C3. To develop the skills of interpretation of abnormalities found on examination.
C4. To develop the ability to perform differential diagnosis in adult patients.
C5. To know the rules of the contemporary treatment regiments of internal diseases.

**Education result matrix for module/course in relation to verification methods of the intended education result and the type of class**

<table>
<thead>
<tr>
<th>Number of course education result</th>
<th>Number of major education result</th>
<th>Student who completes the module/course knows/is able to</th>
<th>Methods of verification of intended education results (forming and summarising)</th>
<th>Form of didactic class <strong>(enter the abbreviation)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>W 01</td>
<td>E.W1</td>
<td>Knowledge and understanding of pathophysiology, diagnostics and therapy of: endocrine diseases including diseases of hypophalamus, pituitary gland, thyroid, parathyroid, adrenal glands, diseases of ovaries and testes, neuroendocrine tumours, different types of diabetes, hypoglycaemias, metabolic syndrome, multiple endocrine neoplasia, osteoporosis hematologic diseases: bone marrow aplasia and anemia, neutropenia and agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative syndromes and myelodysplastic-myeloproliferative neoplasms, myelodysplastic syndromes, neoplasms of mature B and T lymphocytes, bleeding disorders, thrombophilia, life threatening conditions in hematology, blood disorders in diseases of other organs, blood donation and transfusion, transplantation of bone marrow cardiovascular diseases and their complications, including coronary heart disease, valvular heart disease, diseases of the endocardium, myocardium and pericardium, heart failure (acute and chronic), pulmonary embolism occupational diseases, water-electrolytes imbalance states, dehydration, hyperhydration, acidosis and alkalosis rheumatoid diseases, diseases of connective tissues, systemic vasculitis, arthritis affecting vertebral column, metabolic diseases of bones</td>
<td>Oral response, test, oral examination</td>
<td>CK, CA</td>
</tr>
<tr>
<td>S 01</td>
<td>e.g. A.U1</td>
<td>Skills of taking directed medical history and physical examination of adult patient</td>
<td>Oral response, test, oral examination</td>
<td>CK, CA</td>
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</table>

** L - lecture; SE - seminar; AC - auditorium classes; MC - major classes (non-clinical); CC - clinical classes; LC - laboratory classes; SCM - specialist classes (magister studies); CSC - classes in simulated conditions; FLC - foreign language course; PCP practical classes with patient; PE - physical education (obligatory); VP - vocational practice; SS - self-study, EL - E-learning.

Please mark on scale 1-5 how the above effects place your classes in the following categories:

communication of knowledge, skills or forming attitudes:
Knowledge: 5
Skills: 5

<table>
<thead>
<tr>
<th>Student’s workload (class participation, activity, preparation, etc.)</th>
<th>Student Workload (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Contact hours:</td>
<td>240</td>
</tr>
<tr>
<td>2. Student’s own work (self-study):</td>
<td>235,2</td>
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<tr>
<td>Total student’s workload</td>
<td>475,2</td>
</tr>
<tr>
<td>ECTS points for module/course</td>
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**Department of Endocrinology, Diabetes and Isotope Therapy**

**Winter semester- classes**

**Practical training 1.**


<table>
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<tr>
<th>Teaching assistants</th>
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</table>

**Practical training 2.**


Diffuse and nodular goiter: diagnostic procedures, management, iodine prophylaxis.

Fine needle aspiration biopsy – indications, contraindications, advantages and disadvantages, Bethesda classification of thyroid cytology. Indications for surgical treatment in thyroid diseases.

<table>
<thead>
<tr>
<th>Teaching assistants</th>
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</table>
### Appendix 5
of Senate of Wroclaw Medical University
of 30 March 2016

#### Practical training 3.

### Summer semester – classes

#### Practical training 1.
**Disorders of hypothalamic-pituitary unit:** acromegaly, hyperprolactinaemia, panhypopituitarism, diabetes insipidus: differential diagnosis, interpretation of hormonal tests. Methods of treatment. Presentation of clinical cases.

#### Practical training 2.

#### Practical training 3.
**Disorders of calcium and phosphate metabolism:** primary and secondary hyperparathyroidism – differential diagnosis, therapeutic options – indications for surgery, non-surgical approaches.

#### Practical training 4.
**Disorders of adrenal glands:** differential diagnosis. Treatment options in case of hypercortisolaemia and adrenal gland insufficiency. **Carcinoma of adrenal gland** – diagnosis and treatment procedures.
<table>
<thead>
<tr>
<th>Practical training 4.</th>
<th><strong>Hypertension associated with endocrine disorders:</strong> diagnostic and therapeutic algorithms. Aldosterone to renin ratio as a tool in the diagnosis of hypertension. Differential diagnosis.</th>
<th>Teaching assistants</th>
</tr>
</thead>
</table>

**Auditorium classes - winter semester**

1. **Introduction to thyroidology.** Differential diagnosis and management of thyrotoxic states, hypothyroidism, thyroiditis. Dr hab. J. Daroszewski

2. **Goiter and thyroid cancer.** Dr K. Zawadzka

3. **Glucose metabolism disorders - epidemiology, signs and symptoms, diagnostic criteria.** Dr hab. J. Daroszewski

4. **Diseased of adrenal glands.** Dr. A. Jawiarczyk-Przybylowska

**Basic literature** (list according to importance, no more than 3 items)

**Didactic resources requirements** (e.g. laboratory, multimedia projector, other...)
Multimedia projector

**Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)
Basic anatomy, physiology and pathophysiology

**Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)
Attendance and oral exam

**Name and address of module/course teaching unit, contact:** telephone and e-mail address
Pasteura 4, 50-367 Wrocław, tel.: 71 784 25 45, 71 784 25 46, faks: 71 327 09 57. elzbieta.szubart@umed.wroc.pl

**Coordinator / Person responsible for module/course, contact:** telephone and e-mail address
Justyna Kuliczkowska-Plaksej, tel.: 71 784 25 45, 71 784 25 46
List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

Katarzyna Zawadzka MD, Jowita Halupczok-Żyła MD, Jacek Daroszewski MD, PhD, Marek Bolanowski Prof., Aleksandra Jawiarczyk-Przybyłowska MD, Justyna Kuliczewska-Plaksej MD

Department of Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation

Practical classes
Winter semester - Assistants and tutors of the clinic

Class 1. Hematopoietic stem cell transplantation in the blood disorders – indications, purposes, course, types. Early and late complications after bone marrow transplantation.

Summer semester - Assistants and tutors of the clinic


Auditorium classes - winter semester
Winter semester - Assistants and tutors of the clinic

1. Acute leukemias.
2. Chronic myeloid leukemia.
4. Myelodysplastic syndromes.
5. Multiple myeloma and other gammapathies.
8. Platelet and coagulation bleeding disorders in clinical practice.
9. Aquired and congenital thrombophilia.
10. Anemias.
Basic literature (list according to importance, no more than 3 items)

Additional literature and other materials (no more than 3 items)

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)
Computer, multimedia projector, fators.

Preliminary conditions: preliminary test
Preparation for classes prescribed textbook (field activities according to the plan), and knowledge from previous years of study.

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

Attendance and oral exam

Name and address of module/course teaching unit, contact: telephone and e-mail address
Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation
Wrocław, ul. Wybrzeże L. Pasteura 4, tel. 717842576
Head: prof. dr hab. n. med. Kazimierz Kuliczkowski
e-mail: kazimierz.kuliczkowski@umed.wroc.pl

Coordinator / Person responsible for module/course, contact: telephone and e-mail address
Jakub Dębski, jakub.debski@umed.wroc.pl, tel. 717842610

List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.
Prof. Kazimierz Kuliczkowski, Prof. Olga Haus, Prof. Maria Podolak-Dawidziak, Prof. Lidia Usnarska-Zubkiewicz, Prof. Dariusz Wołowiec, Prof. Tomasz Wróbel, Assoc. Prof. Katarzyna Kapelko-Słowik, Assoc. Prof. Donata Urbaniak-Kujda, Stanisław Potoczek, MD, PhD, Justyna Rybka, MD, PhD, Jakub Dębski, MD, Magdalena Laszkowska, MD, Jacek Kwiatkowski, MD, Mateusz Sawicki, MD, Angela Wałasek, MD.
Department and Clinic of Cardiology

Auditorium classes

Noninvasive and invasive diagnostics of exertional and resting chest pain and dyspnea.

Noninvasive and invasive diagnostics and pharmacologic and nonpharmacologic treatment of cardiac arrhythmias.

Practical classes
1. Chronic coronary heart disease - pathophysiology, classification, non-invasive diagnostic procedures, treatment
4. Pulmonary embolism.
5. Acute heart failure.
7. Diseases of myocardium

Primary and secondary literature


The Guidelines of the European Society of Cardiology http://www.escardio.org/knowledge/guidelines/

Didactic resources requirements

Multimedia projector

Preliminary conditions

Basic anatomy, physiology and pathophysiology

Conditions to receive credit for the course

Attendance and oral exam

Name and address of module/course teaching unit, contact: telephone and e-mail address

ul. Borowska 213, 50-556 Wrocław
tel.: 71 736 42 00, faks: 71 736 42 09
e-mail: kardiologia@umed.wroc.pl

Coordinator / Person responsible for module/course, contact: telephone and e-mail address

Monika Przewocka-Kosmala, MD, PhD, tel 71 7364200,
List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

Prof. Andrzej Mysiak, Prof. Marta Negrusz-Kawecka, Prof. Wojciech Kosmala, Monika Przewłocka-Kosmala (MD, PhD), Wiktor Kuliczkowski (MD, PhD), Marcin Protasiewicz (MD, PhD), Tomasz Grzebieliak (MD, PhD), Konrad Kaaz (MD), Tomasz Bańkowski (MD), Kamila Woźnicka (MD)

Department and Clinic of Internal and Occupational Diseases and Hypertension
Auditorium classes - winter semester

1. The emergencies in internal and occupational diseases.
2. Environmental and demographic threats in XXI century

Practical classes

2. The assessment of target organ damage. Rules of conduct in specific therapeutic groups of patients with hypertension (metabolic syndrome, diabetes, stroke, pregnancy, old age, chronic kidney disease). Rules for selection of drugs, depending on the profile of the patient – causal treatment, individualization of pharmacotherapy in accordance with the principles of EBM. Hypertensives emergencies. A patient with refractory hypertension - causes, diagnosis and treatment. The concept of pseudo-refractory hypertension, masked hypertension, "white coat hypertension" and "white coat effect". Diagnosis of non-compliance.

3. Stroke. Assessment of the patient's consciousness by the Glasgow Coma Scale. Pulmonary embolism - the principle of diagnosis, qualification for surgical treatment, pharmacological treatment, thrombosis - diagnosis of conditions predisposing to thrombosis, therapeutic procedure. DIC - principles of diagnosis and treatment, haemorrhagic diathesis, including iatrogenic - overdose of anticoagulants, bleeding in a patient treated with anticoagulant


5. COPD exacerbation, exacerbation of asthma, pneumonia. Acute respiratory failure, sepsis – algorithms

6. Decompensated heart failure, diagnostics, risk factors for decompensation, hemodynamic classification, principles of pharmacotherapy; A patient with dyspnoea, a patient with chest pain - algorithms and differential diagnosis


Primary and secondary literature
2. NM Kaplan, RG Victor MD, Kaplan's Clinical Hypertension, Lippincott Williams & Wilkins, 2014

Didactic resources requirements
Multimedia projector
Preliminary conditions
Basic anatomy, physiology and pathophysiology

Conditions to receive credit for the course
Test

Name and address of module/course teaching unit, contact: telephone and e-mail address
Department and Clinic of Internal, Occupational Diseases, Hypertension and Clinical Oncology
Borowska 213; 50-556 Wroclaw tel. 71-7364000 fax 71-7364009

Coordinator / Person responsible for module/course, contact: telephone and e-mail address
Anna Jodkowska, MD, PhD, anna.jodkowska@umed.wroc.pl tel. 71-7364000

List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.
Adrian Doroszko (MD, PhD), Anna Jodkowska (MD, PhD), Maciej Podgorski (MD), Helena Martynowicz (MD, PhD), Maciej Jakubowski (MD), Katarzyna Beszlek (MD), Marta Jurdziak (MD), Katarzyna Kozuch-Sajda (MD), Diana Frontkiewicz (MD), Leopold Rehan (MD), Maciej Bładowski (MD), Magdalena Stepniewska (MD), Dominika Bereta (MD), Weronika Korzyńska (MD), Anna Skoczyńska (Prof.)

Department and Clinic of Rheumatology and Internal Medicine

Auditorium classes - winter semester
Rheumatoid arthritis.
2. Axial and peripheral spondyloarthritis.
3. New criteria in SLE, Sjögren’s and APS.
4. Systemic sclerosis

Practical classes
1. Physical examination in rheumatology.
2. Epidemiology, pathogenesis, symptoms, differential diagnosis and therapy in rheumatic diseases.
3. Rehabilitation and modern drug treatment needs and challenges.

Primary and secondary literature

Didactic resources requirements (e.g. laboratory, multimedia projector, other…)
Multimedia projector, laptop, flip chart

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)
Student of 6th year of medicine

Conditions to receive credit for the course

Presence: at least 80%
Passing the test: with 60%

Name and address of module/course teaching unit, contact: telephone and e-mail address

Department and Clinic of Rheumatology and Internal Medicine ul. Borowska 213, Wroclaw
Borowska 213 Wroclaw, 50-556 Wroclaw, telephone: 71 734 33 00

Coordinator / Person responsible for module/course, contact: telephone and e-mail address

Prof. Piotr Wiland tel. 71 734 33 00, sekreum@reum.umed.wroc.pl

List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

Accos. Prof. Jerzy Świerkot, PhD, Renata Sokolik MD, PhD, Magdalena Szmyrka, MD, PhD,
Marta Madej, MD, PhD, Ewa Morgiel, MD, PhD, Paweł Stepniewski, MD, Marta Skoczynska, MD

Department of Gastroenterology and Hepatology

Classes (winter and summer semester)

3. Esophageal disorders – anamnesis and physical examination, adequate selection of additional diagnostic tests, interpretation of the results, planning of treatment and follow-up care.
4. Gastro-duodenal disorders – anamnesis and physical examination, adequate selection of additional diagnostic tests, interpretation of the results, planning of treatment and follow-up care.
5. Small intestine and colon diseases except for inflammatory bowel diseases – anamnesis and physical examination, adequate selection of additional diagnostic tests, interpretation of the results, planning of treatment and follow-up care. Clostridium difficile infection. Fecal micro biota transplantation.
8. Pancreatic disorders – anamnesis and physical examination, adequate selection of additional diagnostic tests, interpretation of the results, planning of treatment and follow-up care. Determining the severity of pancreatitis based on clinical evaluation, results of lab tests and imaging studies. Diagnosis and management of the complications.


11. Endoscopic unit: Knowledge of indications, contraindications and preparation for endoscopic examinations. Obtaining the patient's informed written consent, also in difficult situations. Contact with a patient before examinations, explanation of complications. Patient's care after the procedure.

12. Endoscopic unit: Identification of changes in endoscopic examinations and the use of classifications and scoring systems for evaluating types and severity of changes.


15. Endoscopic unit: Diagnostic endoscopy of the lower gastrointestinal tract with taking biopsies and staining during rectoscopy, sigmoidoscopy and colonoscopy – aims and clinical implications.


17. Endoscopic unit: Diagnostic and therapeutic enteroscopy and capsule endoscopy – indications and preparation for the examinations, technique of the procedures and interpretation of the results.

18. Endoscopic unit: Diagnostic and therapeutic endoscopic ultrasonography – indications and preparation for the examinations, technique of the procedures and interpretation of the results.


20. Endoscopy unit: Other endoscopic therapeutic techniques – dilatation, argon plasma coagulation.

21. Ultrasound exam room: Ultrasound indications (when and in whom?). Ultrasonography in comparison to other imaging techniques. The technique of abdominal usg exam and interpretations of the results.

22. Ultrasound exam room: Frequent anatomical pitfalls, interpretation on the normal results, description and documentation of the exam, performing usg exams.

23. Ultrasound exam room: Diagnostics of the liver, biliary tract and the pancreas, performing usg exams; fine-needle aspiration biopsy.

24. Ultrasound exam room: Diagnostics of the kidney, suprarenal glands, spleen, abdominal lymph nodes and retroperitoneal space, performing usg exams.

25. Ultrasound exam room: Evaluation of the large abdominal vessels, diagnostics of extra-organ tumors, spreading of inflammatory changes, lesions of intestinal wall, evaluation of pelvic cavity organs, performing usg exams.


Primary and secondary literature
Avanduc C, Manual of Gastroenterology, Lippincott Williams & Wilkins, 2008

Didactic resources requirements
multimedia projector

Preliminary conditions
Basic knowledge of anatomy and clinical immunology

Name and address of module/course teaching unit, contact: telephone and e-mail address
Dept. of Gastroenterology and Hepatology
Borowska 213 Wroclaw, 50-556 Wroclaw, tel. 71 733 21 20
gastro@gastro.am.wroc.pl

Classes:
dr hab. Agata Mulek
dr hab. Dorota Wasko-Czopnik
dr n. med. Radoslaw Kempinski
dr n. med. Malgorzata Manelska
dr n. med. Katarzyna Neubauer
dr n. med. Adam Smereka
dr n. med. Robert Dukowski
dr n. med. Barbara Woźniak-Stolarska

Department of Nephrology and Transplantation Medicine

Classes
1. Specificity of pharmacotherapy in nephrology - adjustment of drugs' doses to renal function, the most important drug interactions. Nephrotoxic actions of drugs.

2. Treatment of hypertension in renal diseases - individual groups of medicines, indications, contraindications, side effects.


5. Immunosuppressive drugs used in nephrology - antiproliferative drugs that inhibit cytokine production, biological agents. The most common immunosuppressive regimens used in kidney disease: glomerulonephritis, autoimmune diseases, kidney transplant. Use of adrenocortical hormone preparations in renal diseases - indications, complications, available formulations.

6. Basic conditions requiring renal replacement therapy - qualification of patients based on clinical symptoms and laboratory tests. Choice of dialysis, for and against hemodialysis and peritoneal dialysis.

7. Vascular access in hemodialysis - principles of chronic care.


Plasmapheresis - indications, methods of administration, regimens, complications.

11. Peritoneal dialysis-implantation of peritoneal dialysis catheter, fluid types, special problems of dialysed peritoneal dialysis patients


Primary and secondary literature

2. Gerd Herold „Internal Medicine” Publisher: lulu.com; First English Edition 2011.

Didactic resources requirements

multimedia projector

Preliminary conditions

Basic knowledge of anatomy and clinical immunology

Conditions to receive credit for the course

Case presentation, Attendance

Name and address of module/course teaching unit, contact: telephone and e-mail address

Dept. of Nephrology and Transplantation Medicine
Borowska 213, 50-556 Wroclaw, tel. 71 733 25 00
klinef@am.centrum.pl

Classes:
prof. dr hab. Marian Klinger
prof. dr hab. Magdalena Krajewska
dr hab. Oktawia Mazanowska
dr hab. Mariusz Kusztal
dr hab. Miroslaw Banasik
dr n. med. Dorota Kamińska
dr n. med. Maria Magott-Procelewská
dr n. med. Sławomir Zmonarski
dr n. med. Józef Penar
dr n. med. Krzysztof Letachowicz
dr n. med. Tomasz Golebiowski
dr n. med. Maciej Szymczak
dr n. med. Katarzyna Jakuszko
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Date of Syllabus development

4.09.2017

Syllabus developed by

Signature of Head of teaching unit

Signature of Faculty Dean

Wroclaw Medical University
FACULTY OF MEDICINE

VICE-DEAN FOR STUDIES IN ENGLISH

Prof. Andrzej Hendrich, PhD