



Syllabus for academic year 2017/2018			
Description of the course			
Module/Course	Internal Diseases (2)	Group of detailed education results	
		Group code E	Group name
Faculty	Medical		
Major	Medical		
Specialties	Medical		
Level of studies	Uniform magister studies <input checked="" type="checkbox"/> 1 <sup>st</sup> degree studies <input type="checkbox"/> 2 <sup>nd</sup> degree studies <input type="checkbox"/> 3 <sup>rd</sup> degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>		
Form of studies	<input checked="" type="checkbox"/> full-time <input checked="" type="checkbox"/> part-time		
Year of studies	5 <sup>th</sup> year	Semester	<input checked="" type="checkbox"/> Winter <input checked="" type="checkbox"/> Summer
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective		
Course	<input checked="" type="checkbox"/> major <input type="checkbox"/> basic		
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other		
* mark <input type="checkbox"/> with an X			
Number of hours			
Form of education			
Unit teaching the course	Lectures (L)	Practical Classes with Patient (PCP)	
<b>Winter Semester</b>			
Department and Clinic of Endocrinology, Diabetes and Isotope Therapy	2,5	7	
Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation	2,5	7	
Department and Clinic of Cardiology Clinic of Heart Diseases	2,5	7	
Department and Clinic of Internal and Occupational Diseases and Hypertension	2,5	7	



Department and Clinic of Rheumatology and Internal Medicine	-	-
<b>Summer Semester</b>		
Department and Clinic of Endocrinology, Diabetes and Isotope Therapy	<b>2,5</b>	<b>6</b>
Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation	<b>2,5</b>	<b>6</b>
Department and Clinic of Cardiology Clinic of Heart Diseases	<b>2,5</b>	<b>6</b>
Department and Clinic of Internal and Occupational Diseases and Hypertension	<b>2,5</b>	<b>6</b>
Department and Clinic of Rheumatology and Internal Medicine	-	<b>4</b>
<b>Total per year</b>	<b>20</b>	<b>56</b>

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 and rheumatoid 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

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
<b>W 01</b>	<b>E.W1</b>	Knowledge and understanding of pathophysiology, diagnostics and therapy of: endocrine diseases including diseases of hypothalamus, 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	Oral response, test, oral examination	L,PCP



		<p>complications, including coronary heart disease, valvular heart disease, diseases of the endocardium, myocardium and pericardium, heart failure (acute and chronic), pulmonary embolism</p> <p>occupational diseases, water-electrolytes imbalance states, dehydration, hyperhydration, acidosis and alkalosis</p> <p>rheumatoid diseases, diseases of connective tissues, systemic vasculitis, arthritis affecting vertebral column, metabolic diseases of bones including osteoporosis, gout and joint degenerative states</p>		
U 01	e.g. A.U1	Skills of taking directed medical history and physical examination of adult patient	Oral response, test, oral examination	L,PCP
<p>** 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.</p>				
<p>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</p>				
<b>Student's amount of work (balance of ECTS points)</b>				
<b>Student's workload</b> (class participation, activity, preparation, etc.)			<b>Student Workload (h)</b>	
1. Contact hours:			76 (38+38)	
2. Student's own work (self-study):			28 (14+14)	
Total student's workload			104	
ECTS points for module/course			4,0 (2,5+1,5)	
Comments				
<b>Content of classes</b>				
<u>Department and Clinic of Endocrinology, Diabetes and Isotope Therapy</u>				
<b>Lectures</b>				
<ol style="list-style-type: none"> <li>Osteoporosis</li> <li>Neuroendocrine tumors of gastrointestinal tract</li> <li>Presentation of interesting cases</li> </ol>				
<b>Practical classes</b>				
<ol style="list-style-type: none"> <li>Hyperthyroidism – clinical symptoms, differential diagnosis - diseases causing hyperthyroidism, algorithm of management, treatment, orbitopathy, thyroid storm, thyrocardiac syndrome. Radioiodine treatment in thyroid diseases - indications and contraindications Hypothyroidism: Risk groups, diseases causing hypothyroidism, clinical symptoms, diagnosis, rudiments of treatment. Thyroiditis:- classification, clinical symptoms of acute, subacute and chronic thyroiditis, treatment Thyroid cancer: prevalence, risk factors, classification, clinical characteristics, diagnosis, treatment</li> <li>Diseases of adrenal glands: clinical presentation and management of Cushing syndrome and adrenal insufficiency.</li> <li>Diseases of hypothalamus and pituitary gland. Clinical presentation, diagnosis and management of acromegaly, hyperprolactinemia, panhypopituitarism and diabetes insipidus. Analysis of laboratory tests and brain scans. Evaluation of clinical cases.</li> <li>Glucose metabolism disorders: Diabetes mellitus, epidemiology, signs and symptoms, diagnostic</li> </ol>				



criteria (Fasting glucose, Oral glucose tolerance test, protein C). Insulin secretory pattern in healthy individuals and diabetics. Diabetes type 1 and type 2. Options for diabetic treatment. Glucose-lowering interventions. Oral hypoglycemic agents. Algorithm of therapy with antidiabetic agents in type 2 DM. Patient with diabetic complications. Outcome measures to assess diabetes management. Goals of insulin treatment of diabetes mellitus. Principles of insulin therapy.

5. Primary and secondary hyperparathyroidism – clinical symptoms and management.

Osteoporosis: clinical, densitometric and laboratory assessment. Secondary osteoporosis

6. High blood pressure associated with endocrine disorders. Glucocorticoid (GC)-induced hypertension. Vascular effects of GC. Altered regulation of aldosterone production. Aldosterone renin ratio as a tool in diagnosis of hypertension. Hypertension due to pheochromocytoma, oral contraceptives and complications of glucocorticoid therapy.

7. Evaluation and treatment of menstrual irregularities: differential diagnosis, clinical presentation, interpretation of laboratory tests, management.

**Basic literature**

Harrison's Principles of internal medicine. 19th edition. Dan L. Longo et al. McGraw-Hill Medical, 2015.

**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**

Department and Clinic of Endocrinology, Diabetes and Isotope Therapy

Wybrzeże L. Pasteura 4, 50-367 Wrocław, tel: 71 784 25 45, 71 784 25 46, fax: 71 327 09 57.  
[elzbieta.szubart@umed.wroc.pl](mailto:elzbieta.szubart@umed.wroc.pl)

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

Justyna Kuliczowska-Płaksej, tel: 71 784 25 59, [justyna.kuliczowska-plaksej@umed.wroc.pl](mailto:justyna.kuliczowska-plaksej@umed.wroc.pl)

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

Prof. Marek Bolanowski – MD, PhD, Internal Medicine Specialist, Endocrinologist, medical sciences, clinical medicine, practical classes with patient, lectures

Assoc. Prof. Jacek Daroszewski – MD, PhD, Internal Medicine Specialist, Endocrinologist, Diabetologist, medical sciences, clinical medicine, practical classes with patient

Justyna Kuliczowska-Płaksej – MD, PhD, Internal Medicine Specialist, Endocrinologist, medical sciences, clinical medicine, practical classes with patient

Aleksandra Jawiarczyk-Przybyłowska - MD, PhD, Internal Medicine Specialist, medical sciences,



clinical medicine, practical classes with patient

Jowita Halupczok-Żyła – MD, PhD student, medical sciences, clinical medicine, practical classes with patient

Katarzyna Zawadzka - MD, PhD, medical sciences, clinical medicine, practical classes with patient

Marcin Kałużny – MD, PhD, Internal Medicine Specialist, Endocrinologist, Diabetologist, medical sciences, clinical medicine, practical classes with patient

Eliza Kubicka - MD, PhD, Internal Medicine Specialist, Endocrinologist, medical sciences, clinical medicine, practical classes with patient

Aleksandra Zdrojowy-Wełna - MD, medical sciences, clinical medicine, practical classes with patient

Anna Brona - MD, PhD, Internal Medicine Specialist, medical sciences, clinical medicine, practical classes with patient

Content of classes

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

Lectures

1. Acute leukemias and myelodysplastic syndromes
2. Malignant lymphomas.
3. Disorders of blood coagulation

Practical classes

1. Hematological norms, diagnostics of the blood disorders, basic and detailed diagnostic test available in hematology, cytogenetic changes in blood diseases. Algorithms and standards used in different hematological disorders. Hematopoietic cytokines
2. Anemias with deficiency, aplastic and hemolytic anemias. Myelodysplastic syndromes. Acute leukemias – symptoms, diagnosis, treatment. WHO classification. Cytostatic and supportive treatment.
3. HSC transplant in blood diseases – indications, purposes, course, types. Early and late complications after bone marrow transplantation. Myeloproliferative syndromes – polycythemia vera, essential thrombocythemia, osteomyelofibrosis, chronic myeloid leukemia. MPD/MPS.
4. Non-Hodgkin lymphomas. Hodgkin lymphoma
5. Chronic lymphatic leukemia. Tumor lysis syndrome – symptoms, treatment. Plasmocytic dyscrasias – classification, MGUS, presence of monoclonal protein in other diseases. Plasmapheresis – indications, procedure, complications.
6. Platelet and vascular bleeding disorders. Blood transfusions in hematology, post-transfusion complications. Coagulation disorders. Thrombophilia.
7. Bone marrow aplasia and hypoplasia, PRCA, agranulocytosis. Causes of pancytopenia, treatment-related cytopenias. Principles and practice of chemo- and radiotherapy in hematology.



Contemporary diagnostic and therapeutic approach in hematology. Psychological aspects in patients with blood neoplasms.
Basic literature Harrison's Principles of internal medicine. 19th edition. Dan L. Longo et al. McGraw-Hill Medical, 2015.
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**

Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation  
Wrocław, Wybrzeże L. Pasteura 4, tel. 717842576, e-mail: [tomasz.wrobel@umed.wroc.pl](mailto:tomasz.wrobel@umed.wroc.pl)

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

Jakub Dębski, [jakub.debski@umed.wroc.pl](mailto:jakub.debski@umed.wroc.pl), tel 717842576

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

Prof. Tomasz Wróbel, Prof. Olga Haus, Prof. Maria Podolak-Dawidziak, Prof. Lidia Usnarska-Zubkiewicz, Prof. Dariusz Wołowicz, 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

Content of classes <b><u>Department and Clinic of Cardiology</u></b>
Lectures Valvular heart disease, pulmonary embolism
Practical classes 1. Physical examination of cardiovascular system, laboratory parameters used in cardiovascular disease, imaging techniques, drugs used in cardiology. ECG – basic rules. 2. Mitral regurgitation. STEMI. Coronary angiography and PCI. Advanced life support. 3. Mitral stenosis. Bradyarrhythmias and conductance disturbances. NSTEMI. 4. Aortic regurgitation. SVT. AF/AFL. Prophylaxis of arterial and venous thrombotic events. 5. Aortic stenosis. VT. Sudden cardiac death. Stable angina pectoris. 6. Other acquired valve diseases. Blood pressure measuring. Arterial hypertension. 7. Electrophysiology study, Holter ECG. PM + CRT + ICD. Prevention of cardiovascular



diseases.

8. Chronic heart failure. Cardiopulmonary exercise test. Heart transplantation.

9. Acute heart failure (including pulmonary oedema, cardiogenic shock, right ventricular failure, hyperkinetic heart failure)

10. Infective endocarditis. Pericarditis. Cardiac tamponade

11. Pulmonary embolism and vein thrombosis. Prophylaxis of arterial and venous thrombotic events.

12. Pulmonary hypertension. Congenital heart diseases. Cardiac tumours.

#### Primary and secondary literature

1. Braunwald's Heart Disease. A Textbook of Cardiovascular Medicine. 7th or 8th Edition. Elsevier.

2. The ESC Textbook of Cardiovascular Medicine. Blackwell Publishing.

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

4. Kumar and Clark's "Clinical Medicine" Elsevier.

5. Harrison's "Principles of internal medicine" McGraw Hill Education.

6. Hampton "The ECG made easy" Churchill Livingstone.

#### 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**

Department and Clinic of Cardiology, ul. Borowska 213, 50-556 Wrocław, tel.: 71 736 42 00, fax: 71 736 42 09, e-mail: [kardiologia@umed.wroc.pl](mailto:kardiologia@umed.wroc.pl)

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

Monika Przewłocka-Kosmala, MD, PhD, tel 71 7364200,

[monika.przewlocka-kosmala@umed.wroc.pl](mailto:monika.przewlocka-kosmala@umed.wroc.pl)

#### **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), Konrad Kaaz (MD), Tomasz Bańkowski (MD), Kamila Woźnicka (MD)



Content of classes
<b><u>Clinic of Heart Diseases</u></b>
Practical classes
<ol style="list-style-type: none"><li>1. Physical examination of cardiovascular system, laboratory parameters used in cardiovascular disease, imaging techniques, drugs used in cardiology. ECG – basic rules.</li><li>2. Mitral regurgitation. STEMI. Coronary angiography and PCI. Advanced life support.</li><li>3. Mitral stenosis. Bradyarrhythmias and conductance disturbances. NSTEMI.</li><li>4. Aortic regurgitation. SVT. AF/AFL. Prophylaxis of arterial and venous thrombotic events.</li><li>5. Aortic stenosis. VT. Sudden cardiac death. Stable angina pectoris.</li><li>6. Other acquired valve diseases. Blood pressure measuring. Arterial hypertension.</li><li>7. Electrophysiology study, Holter ECG. PM + CRT + ICD. Prevention of cardiovascular diseases. Test.</li><li>8. Chronic heart failure. Cardiopulmonary exercise test. Heart transplantation.</li><li>9. Acute heart failure (including pulmonary oedema, cardiogenic shock, right ventricular failure, hyperkinetic heart failure)</li><li>10. Infective endocarditis. Pericarditis. Cardiac tamponade</li><li>11. Pulmonary embolism and vein thrombosis. Prophylaxis of arterial and venous thrombotic events.</li><li>12. Pulmonary hypertension. Congenital heart diseases. Cardiac tumours. Test.</li></ol>
Primary and secondary literature
<ol style="list-style-type: none"><li>1. Braunwald's Heart Disease. A Textbook of Cardiovascular Medicine. 7th or 8th Edition. Elsevier.</li><li>2. The ESC Textbook of Cardiovascular Medicine. Blackwell Publishing.</li><li>3. The Guidelines of the European Society of Cardiology <a href="http://www.escardio.org/knowledge/guidelines/">http://www.escardio.org/knowledge/guidelines/</a></li><li>4. Kumar and Clark's "Clinical Medicine" Elsevier.</li><li>5. Harrison's "Principles of internal medicine" McGraw Hill Education.</li><li>6. Hampton "The ECG made easy" Churchill Livingstone.</li></ol>
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**

Clinic of Heart Diseases, Military Hospital, ul. Weigla 5 , Wrocław, tel. 261-660-275, e-mail:



[aleksandra.erbert@umed.wroc.pl](mailto:aleksandra.erbert@umed.wroc.pl)

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

Piotr Kübler, tel. 261-660-452, e-mail: [piotr.kubler@umed.wroc.pl](mailto:piotr.kubler@umed.wroc.pl)

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

Prof. Piotr Ponikowski , Prof. Krzysztof Reczuch, Prof. Ewa Jankowska, Piotr Kübler MD, Krystian Josiak MD, Michał Kosowski MD, Wojciech Zimoch MD, Brunon Tomaszewicz MD, Justyna Krzysztofik MD, Marcin Drozd MD, Michał Tkaczyszyn MD, Stanisław Tubek MD

Content of classes

**Department and Clinic of Internal and Occupational Diseases and Hypertension**

Lectures

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

Practical classes

1. Assessment of the cardiovascular risk. Laboratory tests and diagnostic imaging in hypertension. ABPM - ambulatory blood pressure monitoring and its interpretation. Polysomnography.
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
4. Respiratory and metabolic acidosis. Respiratory and metabolic alkalosis. Compensatory mechanisms. The principles of diagnosis and therapy. Dehydration and overhydration. Hyponatremia, hyperemia, hyperkalemia, hypokalemia, hypokalcemia hypercalcemia. Hypophosphatemia
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
7. Emergencies in diabetes and other endocrine diseases - principles of diagnostic and therapeutic procedures. Fever of unknown origin (FUO). Cachexia. Basics of EBM. TEST.

Primary and secondary literature

1. Harrison's Principles of internal medicine. 19th edition. Dan L. Longo et al. McGraw-Hill Medical, 2015



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
Attendance and oral exam or 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  
Ul. Borowska 213; 50-556 Wrocław 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](mailto: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 Podgórski (MD), Helena Martynowicz (MD, PhD), Maciej Jakubowski (MD), Katarzyna Beszłej (MD), Marta Jurdziak (MD), Katarzyna Kozuch-Sajdak (MD), Diana Frontkiewicz (MD), Leopold Rehan (MD), Maciej Bładowski (MD), Magdalena Stępniewska (MD), Dominika Bereta (MD), Weronika Korzyńska (MD), Prof. Anna Skoczyńska

Content of classes
<b>Department and Clinic of Rheumatology and Internal Medicine</b>
<p>Practical classes</p> <ol style="list-style-type: none"> <li>1. Classification of rheumatoid diseases. Rheumatoid arthritis. Specific features of medical history and physical examination in rheumatology.</li> <li>2. Epidemiology, pathogenesis, symptoms, differential diagnosis and therapy in rheumatoid arthritis. The role of proper medical therapy and rehabilitation in slowdown of disability in rheumatology.</li> <li>3. Systemic diseases of connective tissue. Rules of diagnosis, epidemiology, differential diagnosis of systemic lupus erythematosus, systemic scleroderma, dermatomyositis and Sjögren syndrome. The role of blood antibodies testing in rheumatoid diseases.</li> <li>4. Seronegative spondyloarthropathies. Synovial fluid testing. Classification of seronegative spondyloarthropathies, features of inflammatory back pain. Ankylosing spondylitis. Psoriatic arthritis</li> </ol>
Primary and secondary literature
Harrison's Principles of internal medicine. 19th edition. Dan L. Longo et al. McGraw-Hill Medical, 2015
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**

Department and Clinic of Rheumatology and Internal Medicine, ul. Borowska 213, Wrocław  
 tel. 71 734 33 00, [sekreum@reum.umed.wroc.pl](mailto:sekreum@reum.umed.wroc.pl)

**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](mailto:sekreum@reum.umed.wroc.pl)

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

Assoc. Prof. Jerzy Świerkot, Krzysztof Borysewicz, MD, PhD, Renata Sokolik MD, PhD, Magdalena Szmyrka, MD, PhD, Marta Madej, MD, PhD, Ewa Morgiel, MD, PhD


**Date of Syllabus development**

26.06.17.

**Syllabus developed by**

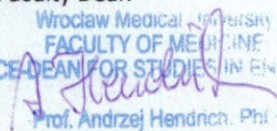
Wiktor Kuliczkowski, MD, PhD

**Signature of Head of teaching unit**

  
 Uniwersytet Medyczny we Wrocławiu  
 KATEDRA I KLINIKA ENDOKRYNOLOGII,  
 DIABETOLOGII I LECZENIA IZOTOPAMI  
 Kierownik

prof. dr hab. n. med. Marek Bolanowski

**Signature of Faculty Dean**

  
 Wrocław Medical University  
 FACULTY OF MEDICINE  
 VICE-DEAN FOR STUDIES IN ENGL.  
 Prof. Andrzej Hendrich, PhD

Uniwersytet Medyczny im. Piastów Śląskich we Wrocławiu Dziekanat Wydziału Lekarskiego ENGLISH DIVISION	
Wpłynęło dnia	4-11-2017
L.dz. DL/ED/	
Znak sprawy DL/ED-	

