



Syllabus for academic year: 2021/2022 Training cycle: 2016/2017 – 2021/2022													
Description of the course													
Course	Practical Clinical Teaching – chosen specialty: Internal medicine							Group of detailed education results					
								Group code E	Group name Non-interventional clinical sciences				
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	X uniform magister studies												
Form of studies	X full-time <input type="checkbox"/> part-time												
Year of studies	VI						Semester:	<input type="checkbox"/> winter X summer (April/May)					
Type of course	X obligatory												
Language of study	<input type="checkbox"/> Polish X English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
..... (Dep. in charge of the course)													
Direct (contact) education ¹													
Distance learning ²													
Summer semester:													
Institute of Heart Diseases													
Direct (contact) education					180								
Distance learning													
TOTAL per year:													
Institute of Heart Diseases													
Direct (contact) education					180								
Distance learning													
Educational objectives (max. 6 items)													

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



- C1. To acquire the knowledge of taking history and performing physical examination in adult patient.
C2. To acquire the knowledge of the symptomatology of cardiovascular, hormonal, hematological, occupational and rheumatoid disorders in adult patients.
C3. To develop the skills of interpretation of abnormalities found on additional tests, particularly in cardiovascular diseases.
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, particularly in cardiovascular disorders.
C6. Development social competences needed to practice the medical profession, in accordance with graduate's profile.

Education result for course in relation to verification methods of the intended education result and the type of class:

Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
E.U1	Skills of taking directed medical history of adult patient	exam of practical skills	CC
E.U3	Skills of conducting complete physical examination of adult patient	exam of practical skills	CC
E.U16	Ability to plan the diagnostic, therapeutic and preventive procedures	exam of practical skills	CC
E.U24	Ability to interpret the results of laboratory tests and identify the causes of abnormalities	exam of practical skills	CC
E.U29	Perform basic medical procedures and treatments including: 1) measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs with a cardiomonitor, pulse oximetry, 3) spirometric examination, oxygen treatment, support and mechanical ventilation, 4) inserting an oropharyngeal tube, 5) intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood, 6) taking nasal, throat and skin swabs, 7) bladder catheterisation in women and men, gastric probing, gastric lavage, enema, 8) standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation, 9) simple strip tests and blood glucose measurement;	exam of practical skills	CC
E.U38	maintain patient medical records	exam of practical skills	CC

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

Student's amount of work (balance of ECTS points):



Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	180
2. Number of hours of distance learning:	n/a
3. Number of hours of student's own work:	90
4. Number of hours of directed self-study	n/a
Total student's workload	270
ECTS points for course	12,0
Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
Lectures – n/a	
Seminars – n/a	
Classes	
<ol style="list-style-type: none"> 1. Physical examination of the patient, particularly of cardiovascular system. 2. Laboratory parameters in internal diseases, particularly in cardiovascular disorders. 3. Imaging techniques in cardiology. 4. Drugs used in cardiology. 5. Mitral regurgitation. STEMI. Coronary angiography and PCI. ECG – 10 cases. 6. Advanced life support. ECG – 10 cases. 7. Mitral stenosis. Bradyarrhythmias and conductance disturbances. ECG – 10 cases. 8. NSTEMI. Unstable angina. ECG – 10 cases. 9. Aortic regurgitation. SVT. AF/AFL. Prophylaxis of arterial and venous trombotic events. ECG – 10 cases. 10. Aortic stenosis. VT. Sudden cardiac death. Stable angina pectoris. 11. Blood pressure measuring. Arterial hypertension. ECG – 10 cases. 12. Electrophysiology study, Holter- ECG. PM + CRT + ICD. 13. Prevention of cardiovascular diseases. 14. Chronic heart failure. Cardiopulmonary exercise test. Heart transplantation. 15. Acute heart failure (including pulmonary oedema, cardiogenic shock, right ventricular failure, hyperkinetic heart failure). 16. Infective endocarditis. Pericarditis. Cardiac tamponade. 17. Pulmonary embolism and vein trombosis. Prophylaxis of arterial and venous trombotic events. 18. Pulmonary hypertension. Congenital heart diseases. Cardiac tumours. 	
Other – n/a	
Basic literature: (list according to importance, no more than 3 items)	
<ol style="list-style-type: none"> 1. Oxford Handbook of Clinical Medicine, 10th ed. Wilkinson, Raine, Wiles et al. Oxford University Press, 2017. 2. Harrison`s Principles of Internal Medicine, 20th ed. Jameson, Fauci, Kasper et al., McGraw-Hill, 2018. 	
Additional literature and other materials: (no more than 3 items)	
<ol style="list-style-type: none"> 1. Current Guidelines from European Society of Cardiology (www.escardio.org/guidelines) 	
Preliminary conditions: (minimum requirements to be met by the student before starting the course)	
Completion of the classes included in the study plan, in particular: Anatomy, Medical Ethics, Physiology, Pathophysiology, Propaedeutics of Internal Medicine, Pharmacology and Toxicology, Internal Medicine (1), Internal Medicine (2)	
Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the 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 in direct contact is obligatory. Every absence must be made up for during a duty in the hospital or by the preparation of a presentation.	
Active participation in classes and exam of practical skills.	



Grade:	Criteria for courses ending with a grade ³
Very good (5,0)	Result of the practical skills test 91-100%
Above good (4,5)	Result of the practical skills test 81-90%
Good (4,0)	Result of the practical skills test 71-80%
Sufficiently good (3,5)	Result of the practical skills test 61-70%
Sufficient (3,0)	Result of the practical skills test 51-60%
	Criteria for courses ending with a credit ³
Credit	n/a

Department in charge of the course:	Institute of Heart Diseases
Department address:	Borowska str. 213, 50-556, Wrocław
Telephone:	71 736 42 36
E-Mail:	elzbieta.kuwak@umw.edu.pl

Person in charge for the course:	Prof. dr hab. Piotr Ponikowski
Telephone:	71 733 11 12
E-Mail:	piotr.ponikowski@umw.edu.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Piotr Ponikowski	Professor	Medical sciences	Physician, academic	CC
Krzysztof Reczuch	Professor	Medical sciences	Physician, academic	CC
Ewa Jankowska	Professor	Medical sciences	Physician, academic	CC
Marta Negrusz-Kawecka	Professor	Medical sciences	Physician, academic	CC
Monika Przewłocka-Kosmala	Professor	Medical sciences	Physician, academic	CC
Wojciech Kosmala	Professor	Medical sciences	Physician, academic	CC
Andrzej Mysiak	Professor	Medical sciences	Physician, academic	CC
Wiktor Kuliczowski	Assistant Professor	Medical sciences	Physician, academic	CC
Piotr Kübler	Assistant Professor	Medical sciences	Physician, academic	CC
Jan Biegus	Assistant Professor	Medical sciences	Physician, academic	CC
Marcin Protasiewicz	Assistant Professor	Medical sciences	Physician, academic	CC
Robert Zymliński	Assistant Professor	Medical sciences	Physician, academic	CC
Piotr Niewiński	MD, PhD	Medical sciences	Physician, academic	CC
Krzysztof Josiak	MD, PhD	Medical sciences	Physician, academic	CC
Konrad Kaaz	MD, PhD	Medical sciences	Physician, academic	CC
Wojciech Zimoch	MD, PhD	Medical sciences	Physician, academic	CC
Stanisław Tubek	MD, PhD	Medical sciences	Physician, academic	CC
Krzysztof Nowak	MD, PhD	Medical sciences	Physician, academic	CC
Michał Tkaczyszyn	MD, PhD	Medical sciences	Physician, academic	CC
Michał Kosowski	MD	Medical sciences	Physician, academic	CC
Brunon Tomaszewicz	MD	Medical sciences	Physician, academic	CC

Date of Syllabus development
30.06.2021

Syllabus developed by
Piotr Niewiński MD, PhD,
Piotr Kübler MD, Assistant Professor

³ The verification must cover all education results, which are realized in all forms of classes within the course



UNIwersYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCLAWIU

Appendix No.3
to Resolution No. 2303
of Senate of Wrocław Medical University
of 28 April 2021

Dean's signature

Wrocław Medical University
Faculty of Medicine
Vice-Dean for Health Studies

prof. Beata Bobieszko, PhD

Signature of Head(s) of teaching unit(s)


Uniwersytet Medyczny we Wrocławiu
Wydział Lekarski
INSTYTUT CHOROÓB SERCA
p.o. dyrektora

prof. dr hab. Piotr Ponikowski