



Syllabus														
Description of the course														
Module/Course	Clinical Pharmacology										Group of detailed education results			
											Group code E	Group name		
Faculty	Medicine													
Major	medicine													
Specialties	Not applicable													
Level of studies	Uniform magister studies x* 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies	x full-time x part-time													
Year of studies	IV					Semester		<input type="checkbox"/> Winter x Summer						
Type of course	x obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course	<input type="checkbox"/> major X basic													
Language of instruction	<input type="checkbox"/> Polish x English <input type="checkbox"/> other													
* mark <input type="checkbox"/> with an X														
Number of hours														
Form of education														
Unit teaching the course	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)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
Summer Semester														
				15										
TOTAL per year: 15														



		involved doctor, whose knowledge allows to optimize therapy.		
<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: 4 Skills: 4 Social competences: 3</p>				
Student's amount of work (balance of ECTS points)				
Student's workload (class participation, activity, preparation, etc.)			Student Workload (h)	
1. Contact hours:			15	
2. Student's own work (self-study):			25	
Total student's workload			40	
ECTS points for module/course			1	
Comments				
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				
Classes				
<ol style="list-style-type: none"> 1. Adverse drug effects, with particular emphasis on adverse consequences of drug interactions important in medical practice. Reporting of drug-induced complications. 2. Individualization of pharmacotherapy in children and the elderly. 3. Optimization of pharmacotherapy based on genetic testing. 4. Optimization of pharmacotherapy during pregnancy. 5. Pathopharmacokinetics. Drug dosage adjustment in kidney failure. 6. The influence of environmental factors and circadian rhythm to the drugs. 7. Effective and safe pharmacotherapy of pain. 8. Rational antibiotic therapy. 9. Therapeutic drug monitoring. Individualization of drug therapy. 10. Pharmacoeconomics. The aspects of treatment. 11. The interpretation of the characteristics of pharmaceutical medicines and critical evaluation of promotional materials for the drug. 12. Conducting clinical trials in accordance with the principles of GCP. Ethical aspects of clinical trials of new drugs and placebo. Interpretation of clinical protocols I, II, III, IV trials. Planning a clinical trial. 13. EBM in pharmacotherapy. 14. Compliance with treatment recommendations. 				
Practical classes				
Basic literature (list according to importance, no more than 3 items)				
<ol style="list-style-type: none"> 1. Katzung B.G., Trevor A.J.: Basic&clinical pharmacology. Mc Graw Hill Education, 2016. 2. Müller M.: Clinical pharmacology: current topics and case studies. Springer International Publishing, 2016. 3. Brody T.: Clinical Trials : Study Design, Endpoints and Biomarkers, Drug Safety, and FDA and ICH 				



Guidelines. Elsevier Science Publishing Co Inc, 2016.

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

1. Altman R.B., Flockhart D., Goldstein D.B.: Principles of pharmacogenetics and pharmacogenomics. Cambridge University Press, 2012.
2. Bennett P.N., Brown M.J., Sharma P.: Clinical pharmacology. Churchill Livingstone Elsevier, 2012.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)
seminar room, therapeutic drug monitoring laboratory, multimedia projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

attendance

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)

The basis for passing is attendance and to obtain a positive (at least 65%) mark from written test (35 single-choice test questions with five answers + 5 open-ended questions).

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	96-100%
Good Plus (4.5)	90-95%
Good (4.0)	80-89%
Satisfactory Plus (3.5)	72-79%
Satisfactory (3.0)	65-71%

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

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

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

Anna Wiela-Hojeńska prof. dr hab., clinical pharmacology, clinical pharmacy, pharmacist, MC

Ewa Jaźwińska-Tarnawska PhD, clinical pharmacology, internal medicine, physician, MC

Przemysław Niewiński PhD, clinical pharmacology, anaesthesiology, physician, MC

Paweł Petryszyn PhD, gastroenterology, physician, MC

Piotr Milejski dr hab., clinical pharmacology, clinical pharmacy, pharmacist, MC

Beata Sienkiewicz Msc, pharmacist, MC

Date of Syllabus development

29.06.2016

Syllabus developed by


Prof. dr hab. Anna Wiela-Hojeńska

Dr Magdalena Hurkacz

Signature of Faculty Dean

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Signature of Head of teaching unit


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