



<p>Educational objectives (max. 6 items)</p> <p>C1. After completion of this course the students should understand the current diagnostic methods as well as emerging therapies of immune-mediated diseases related to the hypersensitivity reactions type I-IV by Gell and Coombs, that will find clinical application in various medical specialties in the near future. The course will be focused on approaches which are currently elaborated in research laboratories and/ or are in the clinical trials.</p>				
<p>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</p>				
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 summarizing)	Form of didactic class <i>**enter the abbreviation</i>
K 01	CW22	Describes the pathomechanisms of hypersensitivity-mediated diseases	Credit test	MC
S 01	CU8	Indicate the assays useful in the immune-mediated disease assessment. Perform skin tests. Correctly interpret results of the skin tests used in the diagnosis of allergy	Observe and perform selected tests	MC
<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:</p> <p>communication of knowledge, skills or forming attitudes:</p> <p>Knowledge: 5 Skills: 4 Social competences: 4</p>				
<p>Student's amount of work (balance of ECTS points)</p>				
Student's workload (class participation, activity, preparation, etc.)			Student Workload (h)	
1. Contact hours:			30	
2. Student's own work (self-study):			9	
Total student's workload			39	
ECTS points for module/course			1,5	
Comments				
<p>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)</p>				
<p>Practical classes</p> <ol style="list-style-type: none"> 1. An overview of recent reports in immunology - the mechanisms of resistance and tolerance 2. Antibodies based diagnostics. 3. Cell isolation and identification. Flow cytometry, cell sorting systems, cell culturing methods. 4. Hypersensitivity reactions diagnostics in vivo. Allergen provocation tests. 5. Written test 				
<p>Basic literature (list according to importance, no more than 3 items)</p> <ol style="list-style-type: none"> 1. Immunology, 8th Edition, Elsevier, 2013 Authors: David Male, Jonathan Brostoff, David Roth & Ivan Roitt 2. K. Abbas, A. H. Lichtman, S. Pillai : „Cellular and Molecular Immunology”, 6th Edition, Elsevier, 2012. 				



3. Peakman M., Vergani D.: "Basic and Clinical Immunology". Second edition. Elsevier – Churchill Livingstone, 2009 Nature reviews. Immunology. Nature New York, London

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

1. Nature reviews. Immunology. Nature New York, London
2. Allergy: European Journal of Allergy and Clinical Immunology. Wiley Blackwell

Journal of Allergy and Clinical Immunology. Elsevier.

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

- multimedia projector, computers, boards, pointers.

Laboratory, centrifuges, Light microscopes, fluorescent microscopes, lab dishes, lymphocyte isolation kits, surface antigen staining kits, autoantibody detection kits, immunohistochemistry kits, lab consumables.

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

Credited courses: Anatomy, Histology with Cytology, Physiology (years I and II) on the level of 3rd year ED students requirements.

Conditions to receive credit for the course (specify the form, criteria 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).

Each absence must be made up, including rector's days or dean's hours.

Self-performance, read-out and interpretation of skin test and laboratory tests. Activity during discussions. Attendance at classes. Fulfilment of written final single-choice test (15 questions) Absence crediting possible maximally for 2 classes. Absence crediting possible during consultation hours with presenting teacher during course schedule.

In case of rector's/deans hours/days student is obliged to prepare presentation on a specified topic (after consultation with the teacher)

Grade:	Criteria for course
Very Good (5.0)	15points (100%)
Good Plus (4.5)	13-14points (86,6-93,3%)
Good (4.0)	11-12 points (73,3-80%)
Satisfactory Plus (3.5)	10 points (66,6%)
Satisfactory (3.0)	9 points (60%)

Grade:	Criteria for exam (if applicable)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	



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Person responsible for course:	Prof. Dr hab Marek Jutel
Phone	7177841740
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<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Paweł Gajdanowicz	Ph.D	Medical biology	adiunct	classes
Ewa Wyrodek	Ph.D	Medical biology	lectruer	classes
Anna Kosowska	MD	Medicine	asistent	classess
Magdalena Zemelka-Wiącek	Ph.D	Medical Biology	adiunct	classess
Marek Jutel	Prof. Dr hab.	Medicine	director	classes

Syllabus developed by

Date of Syllabus development

12,06,2019

Uniwersytet Medyczny we Wrocławiu
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ds. Studentów Zagranicznych
.....
dr Paweł Gajdanowicz

dr Paweł Gajdanowicz
Course Coordinator for the ED Students
Department of Clinical Immunology.

Signature of Head of teaching unit

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.....
kierownik

prof. dr hab. med. Marek Jutel

Signature of Faculty Dean

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