University of Gdańsk

Subject card

Subject name and code	Clinical immunology, PG_00203351						
Field of study	Medical Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
Education level	Bachelor's studies		Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	3		Language of instruction	Polish			
Semester of study	5		ECTS credits	2.0			
Learning profile	academic		Assessment form	exam			
Conducting unit	Department of General and Medical Biochemistry -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	dr n. med. Marlena Typiak					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		4.0		16.0	50
Subject objectives	familiarizing students with the clinical picture and pathophysiology of selected diseases caused by immunological disorders, indication of the role of immunogenetics in selected diseases and transplantology, preparing the student to work in a specialized medical team, indicating the possibility of combining scientific research with the diagnosis of selected clinical cases, tracing the relationship between individual immunological defects and a specific clinical picture						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMEDL3_W16] has an advanced knowledge of the experimental methods and the most important techniques of biological sciences that can be applied to medical biology and diagnostics	- BM_W16: explains the theoretical basis of experimental methods and lists the most important techniques that can be used in immunology and immunogenetics	[SW4] test/exam - oral or written
[BIOLMEDL3_W12] has an advanced understanding of the development and current state of knowledge and the latest trends in medical biology; indicates their relationship with other disciplines of natural or medical sciences	- BM_W12: is familiar with the development and current state of the art and the latest trends in clinical immunology, indicates their relationship with other disciplines of natural or medical sciences	[SW4] test/exam - oral or written
[BIOLMEDL3_W05] has an advanced knowledge of the structure, properties and functions of human cells, tissues and organs; human physiological and biochemical processes and mechanisms of disease pathophysiology	- BM_W05: knows the structure and functions of immune cells in different human organs, knows and understands the processes of pathophysiology of selected diseases associated with a defect of the immune system	[SW4] test/exam - oral or written
[BIOLMEDL3_W07] has advanced knowledge of medical biology and is familiar with the health sciences terminology	- BM_W07: has basic knowledge of clinical immunology, knows specialist terminology,	[SW4] test/exam - oral or written
[BIOLMEDL3_U07] is able to identify problems corresponding to the needs of an individual and a social group and to undertake basic diagnostic, preventive and educational activities appropriate to the profession of medical biologist	- BM_U07: is able to cooperate with the medical team using specialist terminology, analyses the diagnostic possibilities in a given clinical case and proposes the choice of further diagnostic route	[SU1] oral statement/conversation/ discussion
[BIOLMEDL3_U09] has the ability to give oral presentations in Polish or English on specific issues in medical biology	- BM_U09: has the ability to speak in Polish or English on specific issues of clinical immunology	[SU1] oral statement/conversation/ discussion
[BIOLMEDL3_U15] learns independently, in a focused manner	- BM_U15: Learns clinical immunology issues independently, in a teacher-guided manner	[SU1] oral statement/conversation/ discussion

Subject contents

Topics of the lecture Clinical picture and pathophysiology of selected diseases caused by immunological disorders, including: primary immunodeficiencies, autoimmune diseases, interactions of the microbiome and the immune system, immune response against cancer, reproductive disorders, allergy and anaphylaxis. Disease syndromes in immunology. Therapy with immunoglobulin preparations, biological treatment basics and application. Introduction to transplantology, selected immunogenetic issues. Active and passive immunization.

Prerequisites and co-requisites

Completed courses on the topics: Propaedeutics of internal diseases, Basics of cellular and molecular immunology.

Basic knowledge of human anatomy, physiology, internal diseases and basic immunology.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written test	51.0%	100.0%

Recommended reading	Basic literature	Literature required to finally pass the course (pass the exam): Clinical immunology, H. Chapel et al., ed. Grzegorz Senatorski, ed. Czelej 2009; Immunologia, ed. J. Gołąb, M. Jakóbisiak et al., ed. PWN 2012
	Supplementary literature	Cellular and Molecular Immunology, A.Abbas et al., Elsevier, 2021
	eResources addresses	
Example issues/ example questions/ tasks being completed	The immune system will respond inflammatoryly to:a. autologous and syngeneic transplantb. autologous and isogenic transplantc. allogeneic and xenogeneic transplantd. none of the answers are correct	
Work placement	Not applicable	

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