

SYLLABUS of the MODULE (SUBJECT)

General Information

Code		Title	Transplantology
Module type			<i>Obligatory</i>
Faculty			<i>Faculty of Medicine</i>
Field of study			<i>medicine</i>
Major			<i>Not applicable</i>
Level of study			<i>long-cycle</i>
Mode of study			<i>intramural</i>
Year of study			<i>V</i>
Semester			<i>block</i>
ECTS points			<i>2</i>
Types of training			<i>Seminars/ exercises (12+28)</i>
Tutor responsible for the module			<i>Prof. dr hab. n. med. Kazimierz Ciechanowski</i>
Tutors conducting the subject			<i>Prof. dr hab. n. med. Kazimierz Ciechanowski kazcie@pum.edu.pl</i> <i>Prof. dr hab. n. med. Leszek Domański</i> <i>Prof. dr hab. n. med. Jacek Różański</i> <i>Dr hab. n. med. Grażyna Dutkiewicz</i> <i>Dr hab. n. med. Karolina Kędzierska</i> <i>Dr n. med. Maciej Domański</i> <i>Dr hab. n. med. Edyta Golembiewska</i> <i>Dr n. med. Krzysztof Pabisiak</i> <i>Dr n. med. Joanna Kabat-Koperska</i> <i>Dr n. med. Joanna Stępniewska</i> <i>Dr n. med. Ewa Kwiatkowska</i> <i>Dr n. med. Magda Wiśniewska</i> <i>Dr n. med. Małgorzata Marchelek-Myśliwiec</i>
			<i>Prof. dr hab. n. med. Marek Ostrowski</i> <i>Dr hab. n. med. Jerzy Sieńko</i> <i>Dr n. med. Maciej Kotowski</i> <i>Dr n. med. Karol Tejchman</i> <i>Dr n. med. Anita Sierocka</i> <i>Dr n. med. Adam Nowacki</i> <i>Dr n. med. Jan Pawlus</i> <i>Mgr Edyta Skwierczyńska</i>
WWW			www.pum.edu.pl
Language			English

Detailed information

Module objectives		Legal and ethical aspects of transplantation medicine. Rules and policies of organ procurement and transplantation in Poland. Principles of immunology, surgery and immunosuppression in clinical transplantology. Complications of organ transplantation.
Prerequisite /essential requirements/	Knowledge	To know the principles of internal medicine, clinical immunology and surgery.
	Skills	The ability of verbal and non-verbal communication with organ transplant patient.
	Competences	To care for the good of the patient, to obey patient's rights, to comply with medical confidentiality.

Description of the learning outcomes for the subject /module			
Number of learning outcome	Student, who has passed the (subject) Knows /is able to /can:	SYMBOL (referring the standards) EKK	Method of verification of learning outcomes
W01	Knows principal parameters describing organ function, including reference ranges and demographic factors influencing these parameters	K_B.W29	
W02	Knows the criteria for the suspicion and diagnosis of brain death	K_F.W15	
W03	Knows genetic principles of donor matching system, knows basic principles of transplantation immunology, describes the HLA major histocompatibility complex	K_C.W21 K_C.W24	
W04	Knows genetic basis of human ABO blood groups and serological conflict in Rh factor	K_C.W6	
W05	Knows basics of transplantation surgery, indications for transplantation of organs and related procedures	K_F.W14	
W06	Knows symptoms of iatrogenic infections, vectors for infection and pathogens causing tissue-specific changes	K_C.W17	
W07	Knows legal issues in organ transplantation, artificial procreation, abortion, esthetic procedures, palliative care, psychiatric disorders	K_G.W10	
U01	Interpretes results of microbiology tests	K_C.U10	S
U02	Relates the descriptions of tissue and organ injury to clinical symptoms, patient's history and lab test results	K_C.U11	S

U03	Analyzes defence and adaptive reactions as well as regulatory disorders to different factors	K_C.U12	S
U4	Matches drugs in appropriate doses to correct pathological reactions in different systems	K_C.U14	S
U5	Describes physical and mental state of the patient	K_E.U13	S
U6	Builds trust in the whole treatment process	K_D.U4	S
U7	Suggests individualization of therapeutic guidelines and other ways of treatment in non-effectiveness or contraindications to standard therapy	K_E.U18	S
U8	Informs patient about the aim and the risk of diagnostic and therapeutic procedures, obtains informed consent from patient	K_D.U6	S
U9	Performs physical examination of all systems in adult patient	K_E.U3	S

Matrix presenting the learning outcomes of the subject/module in relation to the form of classes

Number of learning outcome	Student, who has passed the (subject) Knows /is able to /can:	Types of training							
		Lecture	Seminar	Laboratory classes	Project work	Clinical classes	Classes	Practical classes	Other
W01	Knows principal parameters		X			X			
W02	Knows the criteria for the		X			X			
W03	Knows genetic principles of		X			X			
W04	Knows genetic basis of human		X			X			
W05	Knows basics of transplantation		X			X			
W06	Knows symptoms of iatrogenic		X			X			
W07	Knows legal issues in organ		X			X			
U01	Interpretes results of		X			X			
U02	Relates the descriptions of		X			X			
U03	Analyzes defence and adaptive		X			X			
U4	Matches drugs in appropriate		X			X			
U5	Describes physical and mental		X			X			
U6	Builds trust in the whole		X			X			
U7	Suggests individualization of		X			X			
U8	Informs patient about the aim		X			X			
U9	Performs physical examination		X			X			

Module (subject) contents			
Symbol of teaching programme	Content of teaching programme	References to learning outcomes	
TK.....01	Legal and ethical aspects of transplantation medicine in Poland. Criteria of brain death. Organ/tissue donor.	K_G.W10 K_F.W15	
TK.....02	Transplantation immunology. Organ recipient qualifications.	K_C.W21 K_C.W24 K_C.W6, K_D.U6 K_E.U13	
TK.....03	Abdominal and chest organ transplantation.	K_F.W14	
TK.....04	Principles of immunosuppressive treatment	K_C.U14 K_E.U18	
TK.....05	Complications of organ transplantations.	K_B.W29 K_C.W17, K_E.U3 K_C.U10, K_C.U12 K_C.U11, K_D.U4	
References and educational resources			
1.Danovitch M.G. Handbook of Kidney Transplantation. Lippincott Williams & Wilkins. Philadelphia.2001			
Student's workload (balance sheet of ECTS points)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Workload [h]		
	Tutor	Student	Average
activities that require direct participation of tutors	40	40	
Preparation to the classes		5	
Reading of the indicated/specified literature		5	
Report writing/project making			
Time spent to prepare for the exam			
Other			
Student's workload in total	40	50	
ECTS points for the subject	2		
Remarks at the end			

Methods of assessment, for example:

E – exam- problem resolving

S – verifying of practical skills

R – report

D – discussion

P – presentation

Others-