



Syllabus for academic year: 2021/2022													
Training cycle: 2017/2018-2022/2023													
Description of the course													
Course	Clinical transplantation										Group of detailed education results		
											Group code	Group name	
											F	INVASIVE CLINICAL SCIENCE	
Faculty	Medicine												
Major	Medicine												
Level of studies	<input checked="" type="checkbox"/> X uniform magister studies <input type="checkbox"/> 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> X full-time <input type="checkbox"/> part-time												
Year of studies	V					Semester:		<input checked="" type="checkbox"/> X winter <input checked="" type="checkbox"/> X summer					
Type of course	<input checked="" type="checkbox"/> X obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> 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:													
Department of Nephrology and Transplantation Medicine					6								
Direct (contact) education ¹					6								
Distance learning ²	2												
Department of													

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

² Education with applied methods and techniques for distance learning



Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	20
2. Number of hours of distance learning:	5
3. Number of hours of student's own work:	10
4. Number of hours of directed self-study	n/d
Total student's workload	35
ECTS points for course	1,5
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>Lectures WINTER SEMESTER (5 hours)</p> <ol style="list-style-type: none"> 1. Legal basis and organization of transplantation in Poland. The national list of refusals. Central List of Recipients. Immunological basis for organ transplantation. Immunosuppressive drugs , principles of immunosuppressive therapy. Infectious complications in transplant recipients. Mechanisms of organ rejection and chronic causes organ damage. Department of Nephrology and Transplantation Medicine (2 hours) 2. Types and general principles of hematopoietic cell transplantation. Indications and methods of preparation ("conditioning") of patients for transplantation of hematopoietic cells. General principles of managing patients after hematopoietic cell transplantation. Department of Haematology, Blood Neoplasms, and Bone Marrow Transplantation (3 hours) 	
<p>Seminars Not applicable</p>	
<p>Classes WINTER SEMESTER (10 hours) Department of Nephrology and Transplantation Medicine</p> <ol style="list-style-type: none"> 1. Indications for organ transplantation. Renal transplantation. Liver transplantation. Pancreas transplantation and pancreatic islet. Heart Transplant. Postoperative care after organ transplantation. 2. Eligibility transplant recipient, the immunological selection of recipient and donor tissue typing, crossmatch. The problem of donor family . 3. Care for the patient in the early period after kidney transplantation; the most common complications. Delayed taking action by the transplanted organ, the causes of deterioration. Rejection of the transplant. Rules for selection of the immunosuppressive program. Monitoring of immune response. Control of drug concentrations. <p>Department of Haematology, Blood Neoplasms, and Bone Marrow Transplantation:</p> <ol style="list-style-type: none"> 1. The principles of qualifying the patient for hematopoietic cell transplantation. Rules for the search and selection of allogeneic hematopoietic cell donor. Sources of hematopoietic cells and methods of their collection. Engineering of hematopoietic cells preparation. 2. Infectious and non-infectious complications after hematopoietic cell transplantation. Acute and chronic graft versus host disease. Diagnostics, symptoms and treatment. Principles and methods for monitoring residual disease after HSCT. Evaluation of donor chimerism after transplantation after allogeneic HSCT. Methods for the treatment of preventive and pre-emptive cancer recurrence. <p>SUMMER SEMESTER (10 hours) Department of Nephrology and Transplantation Medicine</p> <ol style="list-style-type: none"> 1. Organ procurement and storage. Criteria for brain death. Choosing a deceased donor and taking care of the donor. Rules for organ allocation. 2. Surgical aspects of transplantation and post-transplantation care over kidney recipient. Surgical aspects of transplantation and post-transplant care over recipients of abdominal organs: liver, pancreas, intestines. Surgical aspects of transplantation and post-transplant care over chest and heart organ recipients. 	



3. Acute and chronic rejection of transplants. Histopathology changes in the kidney transplant. Monitoring transplant recipient.
4. Infectious complications in the early and late and post-transplant period. Cardiovascular morbidity in transplant recipients. Hematologic, metabolic, endocrine complications and cancers after organ transplantation.
5. A patient with inefficient transplant. Retransplantation. The results of transplantation. The quality of life of transplant recipients. Pregnancy patients after transplantation.

Other

- 1.

Basic literature (list according to importance, no more than 3 items)

1. Organ transplantation – a clinical guide Andre A.Kline, 2011, Cambridge University Press

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

1. Textbook of Organ Transplantation, A Kirk, 2014, Wiley-Blackwell
2. Handbook of kidney transplantation, G Danovitch, Wolters Cluver

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

Knowledge of the basics of internal medicine and basic surgery.

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)

The condition of passing the course is the presence at all classes and obtaining a positive assessment from the teacher. All absences must be made up, including rector's and dean's hours. The grade will be issued on the basis of the teacher's recorded activity: case presentation, participation in the discussion, observation, oral answer, and test. Passing classes is a condition of admission to the exam. Completion of the course may take place in direct contact with an academic teacher or using the devices for distance learning.

Grade:	Criteria for courses ending with a grade ³
Very Good (5.0)	Knowledge of issues related to the basics of transplantation is estimated 95%. Student interprets medical research, diagnose, carry out differential diagnosis, proposes treatment very well.
Good Above (4.5)	Knowledge of issues related to the basics of transplantation is estimated 90%. Student interprets medical research, diagnose, carry out differential diagnosis, proposes treatment above well.
Good (4.0)	Knowledge of issues related to the basics of transplantation is estimated 80%. Student interprets medical research, diagnose, carry out differential diagnosis, proposes treatment well.
Satisfactory Plus (3.5)	Knowledge of issues related to the basics of transplantation is estimated 70%. Student interprets medical research, diagnose, carry out differential diagnosis, proposes treatment fairly well
Satisfactory (3.0)	Knowledge of issues related to the basics of transplantation is estimated 60%. Student interprets medical research, diagnose, carry out differential diagnosis, proposes treatment sufficiently
	Criteria for courses ending with a credit³
Credit	Not applicable

Grade:	Criteria for exam ³
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³ The verification must cover all education results, which are realized in all forms of classes within the course



Very Good (5.0)	Not applicable
Good Above (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

Department in charge of the course:	Department of Nephrology and Transplantation Medicine
Department address:	50-556 Wrocław, ul. Borowska 213
Telephone:	71 733 2500
E-Mail:	nefrologia@umed.wroc.pl

Person in charge for the course:	Prof. dr hab. Magdalena Krajewska
Telephone:	71 733 2551
E-Mail:	nefrologia@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Magdalena Krajewska	prof.	Medical science	Medical doctor, academic teacher	L/CC
Oktawia Mazanowska	prof. UMW	Medical science	Medical doctor, academic teacher	L/CC
Mariusz Kusztal	prof.	Medical science	Medical doctor, academic teacher	L/CC
Mirostaw Banasik	prof. UMW	Medical science	Medical doctor, academic teacher	L/CC
Krzysztof Letachowicz	prof. UMW	Medical science	Medical doctor, academic teacher	L/CC
Dorota Kamińska	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Katarzyna Madziarska	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Tomasz Gołębowski	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Hanna Augustyniak-Bartosik	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Katarzyna Jakuszko	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Andrzej Konieczny	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Magdalena Kuriata-Kordek	MD, PhD	Medical science	Medical doctor, academic teacher	CC



Maciej Szymczak	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Sławomir Zmonarski	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Paweł Poznański	MD	Medical science	Medical doctor, academic teacher	CC
Anna Szymczak	MD	Medical science	Medical doctor, academic teacher	CC
Dorota Zielińska	MD	Medical science	Medical doctor, academic teacher	CC

Department in charge of the course:	Department of Haematology, Blood Neoplasms, and Bone Marrow Transplantation
Department address:	wyb. Ludwika Pasteura 4, 50-367 Wrocław
Telephone:	tel.: 71 784 25 76, faks: 71 327 09 63
E-Mail:	e-mail: WK-14@umed.wroc.pl

Person in charge for the course:	prof. dr hab. n. med. Tomasz Wróbel
Telephone:	713689391
E-Mail:	tomasz.wrobel@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Tomasz Wróbel	prof.	Medical science	Medical doctor, academic teacher	L/CC
Anna Czyż	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Donata Urbaniak-Kujda	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Marta Sobas	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Maciej Majcherek	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Monika Biernat	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Agnieszka Szeremet	MD	Medical science	Medical doctor, academic teacher	CC

Date of Syllabus development

.....16.06.2021.....

Syllabus developed by

Prof. dr hab. Magdalena Krajewska
dr hab. n.med. Dorota Kamińska
dr n.med. Katarzyna Jakuszko

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

Uniwersytet Medyczny we Wrocławiu
KATEDRA I KLINIKA NEFROLOGII
I MEDYCYNY TRANSPLANTACYJNEJ
Kierownik
Magdalena Krajewska
prof. dr hab. Magdalena Krajewska



UNIwersytet Medyczny
IM. PIASTÓW ŚLĄSKICH WE WROCLAWIU

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

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Dean's signature

Wrocław Medical University
Faculty of Medicine
Vice Dean for English Studies

prof. Beata Sileszczyńska, PhD