



Syllabus for academic year: 2020/2021			
Training cycle: 2016-2022			
Description of the course			
Module/Course	Clinical Transplantology	Group of detailed education results	
		Group code	Group name
		E	Non-invasive clinical science
		F	Invasive clinical science
Faculty	Medicine		
Major	Medicine		
Unit realizing the subject	Department of Nephrology and Transplantation Medicine Department of Vascular, General and Transplantation Surgery Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation		
Specialties	Not applicable		
Level of studies	Uniform magister studies <input checked="" 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 <input type="checkbox"/>		
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time		
Year of studies	V	Semester	<input checked="" type="checkbox"/> Winter <input checked="" type="checkbox"/> Summer
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective		
Course	<input type="checkbox"/> major <input checked="" type="checkbox"/> basic		
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> 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														
Direct (contact) education					10									
Online learning (synchronous)	5				10									
Distance learning (asynchronous)														
Summer Semester														
Direct (contact) education					10									
Online learning (synchronous)					10									
Online learning (asynchronous)														
TOTAL per year:														
Direct (contact) education					20									
Online learning (synchronous)	5				20									
Online learning (asynchronous)														
Educational objectives (max. 6 items) C1. Presentation of the rapidly growing forms of renal replacement therapy , patient eligibility rules and procurement , C2. Presentation of antirejection medication and possible complications following transplantation C3. Presentation of the legislation and the organization of organ transplantation in Poland.														
Education result matrix for module/course in relation to verification methods of the intended education result and the type of class														
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 summarising)			Form of didactic class <i>**enter the abbreviation</i>						
W 01	E W7	He knows and understand the causes, symptoms , principles of diagnosis and therapeutic intervention with respect to the most common internal			Oral answer			L, CC						



W02	E.W37	diseases occurring in adults , and their complications : kidney and urinary tract , including acute and chronic renal failure , diseases glomerulonephritis and interstitial kidney , renal cysts , kidney stones , urinary tract infections He knows the types of biological materials used in laboratory diagnostics and rules for the collection of research material ;		
W03	E.W38.	He knows theoretical basis and practical laboratory diagnostics ;		
W04	E.W39.	He knows and understands the possibilities and Limitations of laboratory tests in emergency situations ;		
W05	E.W8.	He knows and understands the course and symptoms of the aging process as well as that the principle of overall assessment and geriatric care interdisciplinary to a patient in the elderly ;		
U 01	E.U1.	performs medical history of the patient adults ;	Oral answer – adequacy of taking history and physical examination as well as assessment of medical records	L, CC
U 02	E.U3.	performs complete and targeted physical examination of the adult patient ;		
U 03	E.U7.	evaluates the condition , the state of consciousness of the patient;		
U 04	E.U20.	qualifies the patient for home and hospital treatment		
U 05	E.U38.	can keep patient's records medical		
K 01		willingly participates in care of patient after transplantation, cooperates in a transplant team,		
K 02		actively participates in education society regarding transplantation		
K03				



** 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 .

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: 5

Skills: 5

Forming attitudes:5

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	10
2. Online learning hours (e-learning):	15
3. Student's own work (self-study):	10
Total student's workload	35
ECTS points for module/course	1,5
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

Department of Nephrology and Transplantation Medicine (2 hours)

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 and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation (3 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.

Seminars

Not applicable

Practical classes

Department of Nephrology and Transplantation Medicine

Indications for organ transplantation.

Renal transplantation. Liver transplantation. Pancreas transplantation and pancreatic islet. Heart Transplant. Postoperative care after organ transplantation.

Eligibility transplant recipient, the immunological selection of recipient and donor tissue typing, crossmatch.The problem of donor family .

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.

Acute and chronic rejection of transplants. Histopathology changes in the kidney transplant.

Monitoring transplant recipient. 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. A patient with inefficient transplant. Retransplantation. The results of transplantation. The quality of life of transplant recipients. Pregnancy patients after transplantation.

Department of Vascular, General and Transplantation Surgery

Organ procurement and storage. Criteria for brain death. Choosing a deceased donor and taking care of the donor. Rules for organ allocation.

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.

Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation

Day 1 (2h)

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.

Day 2 (2h)

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.

Other

1.

2.

3.

etc. ...

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

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

Clinical classes, multimedia projector

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



All the absences (including Rectors Day ect.) has to be made up in form of preparing an essay or a presentation according to the lecturer instructions . Final test: oral answer /written test

Grade:	Criteria (only for courses/modules ending with an examination)
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 Plus (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 (only for courses/modules ending with e credit)
Credit	

Grade:	Criteria (examination evaluation criteria)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Unit realizing the subject	Department of Nephrology and Transplantation Medicine
Unit address	50-556 Wrocław, ul. Borowska 213
Telephone	71 733 2500
E-Mail	nefrologia@umed.wroc.pl

Person responsible for module	Prof dr hab. Magdalena Krajewska
Coordinator	



Telephone	71 733 2500
E-Mail	magdalena.krajewska@umed.wroc.pl

List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Dorota Kamińska	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Mariusz Kusztal,	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
Miroslaw Banasik,	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Krzysztof Letachowicz,	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
Tomasz Gołębiowski,	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Sławomir Zmonarski,	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Maciej Szymczak,	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Andrzej Konieczny	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
Katarzyna Jakuszko,	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
Hanna Augustyniak - Bartosik	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
Paweł	MD		Medical doctor	Classes, lectures,



Poznański				seminars
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Name of unit teaching course:	Department of Vascular, General and Transplantation Surgery
Address	Ul. Borowska 213, Wrocław,
Phone	71 733 20 03
E-mail	magdalena.emilianowicz@umed.wroc.pl

Person responsible for course:	Prof. Dariusz Janczak
Phone	tel. 71 733 20 03
E-mail	magdalena.emilianowicz@umed.wroc.pl

<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>
Dariusz Patrzalek	Prof. dr hab. n.med.	transplant surgery general surgery	Physician	classes
Tomasz Dawiskiba	dr n. med.	transplant surgery general surgery	physician	Classes,
Agnieszka Lepiesza	lekarz	transplant surgery general surgery	physician	Classes,
Marcin Rychter	lekarz	transplant surgery general surgery	physician	Classes,
Tadeusz Dorobisz	dr n. med.	general surgery	physician	classes
Maciej Antkiewicz	lekarz	general surgery	physician	Classes
Piotr Barć	dr n. med.	transplant surgery general surgery	physician	Classes,

Name of unit teaching course:	Department and Clinic of Haematology, Blood Neoplasms, and Bone Marrow Transplantation
Address	wyb. Ludwika Pasteura 4, 50-367 Wrocław



Phone	tel.: 71 784 25 76, faks: 71 327 09 63
E-mail	e-mail: WK-14@umed.wroc.pl

Person responsible for course:	prof. dr hab. n. med. Tomasz Wróbel
Phone	713689391
E-mail	tomasz.wrobel@umed.wroc.pl

<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 cla:</i>
Anna Czyż	Dr hab. n. med.	Internal medicine, hematology, transplantology	lekarz; n.a.	CK
Donata Urbaniak-Kujda	Dr hab. n. med.	Internal medicine, hematology	lekarz; n.a.	CK
Maciej Majcherek	Dr n. med.	Hematology (in trainee)	lekarz n.a	CK
Monika Biernat	Dr n. med.	mikrobiology, internal medicine, hematology (in trainee)	lekarz; n.a.	CK
Agnieszka Szeremet	Lek.	Internal medicine, hematology	lekarz; n.a.	CK

Date of Syllabus development

29.09.2020

Syllabus developed by

dr hab. n.med. Dorota Kamińska,
dr hab. n.med. Mirosław Banasik,
dr n.med. Katarzyna Jakuszko

Signature of Head of teaching unit

Signature of Faculty Dean

Wroclaw Medical University
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.....prof. dr hab. Magdalena Krajewska

