



Syllabus for academic year: 2021/2022 Training cycle: 2016/2017 – 2021/2022													
Description of the course													
Course	Practical Clinical Teaching – chosen specialty:  Paediatrics							Group of detailed education results					
								Group code	Group name				
								E	non-interventional clinical sciences				
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	X uniform magister studies												
Form of studies	X full-time <input type="checkbox"/> part-time												
Year of studies	VI						Semester:	<input type="checkbox"/> winter X summer (April/May)					
Type of course	X obligatory												
Language of study	<input type="checkbox"/> Polish 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)
<b>Winter semester:</b>													
..... (Dep. in charge of the course)													
Direct (contact) education <sup>1</sup>													
Distance learning <sup>2</sup>													
<b>Summer semester:</b>													
Department of Paediatric Bone Marrow Transplantation, Oncology													
Direct (contact) education					180								
Distance learning													
<b>TOTAL per year:</b>													
Department of Paediatric Bone Marrow													

<sup>1</sup> Education conducted with direct participation of university teachers or other academics

<sup>2</sup> Education with applied methods and techniques for distance learning



Transplantation, Oncology													
Direct (contact) education				180									
Distance learning													
<p><b>Educational objectives</b></p> <p>C1. Can recognize early and late symptoms of oncological and hematological diseases in children.</p> <p>C2. Can choose the appropriate diagnostic methods used in pediatric oncology and hematology depending on the clinical situation.</p> <p>C3. Knows and understands the principles of oncological and hematological treatment in children.</p> <p>C4. Is able to implement initial diagnostic and therapeutic procedures in the event of complications after oncological and hematological treatment in children, including emergencies in pediatric oncology and hematology.</p> <p>C5. Knows how to deal with the patient in the course of oncological and hematological treatment, including acquiring the ability to talk to the patient and his family.</p> <p>C6. Development social competences needed to practice the medical profession, in accordance with graduate's profile.</p>													
<p><b>Education result for course in relation to verification methods of the intended education result and the type of class:</b></p>													
Number of detailed education result	Student who completes the course knows/is able to						Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>					
E.U4	conduct a physical examination on a child of any age;						Completion of the commissioned task	CC					
E.U7	assess the general condition, state of consciousness and awareness of the patient;						Completion of the commissioned task	CC					
E.U12	perform differential diagnosis of the most common diseases of adults and children;						Completion of the commissioned task	CC					
E.U13	assess and describe the somatic and psychological state of the patient;						Completion of the commissioned task	CC					
E.U14	recognise immediate life-threatening conditions;						Completion of the commissioned task	CC					
E.U16	plan diagnostic, therapeutic and preventive procedures;						Completion of the commissioned task	CC					
E.U17	conduct an analysis of possible adverse reactions to and interactions between individual drugs;						Completion of the commissioned task	CC					
E.U20	qualify the patient for home and hospital treatment;						Completion of the commissioned task	CC					
E.U24	interpret laboratory test results and identify causes						Completion of	CC					



	of deviations from the norm	the commissioned task	
E.U28	collect and preserve material for tests used in laboratory diagnosis;	Completion of the commissioned task	CC
E.U29	perform basic medical procedures and treatments including: 1) measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs with a cardiomonitor, pulse oximetry, 3) spirometric examination, oxygen treatment, support and mechanical ventilation, 4) inserting an oropharyngeal tube, 5) intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood, 6) taking nasal, throat and skin swabs, 7) bladder catheterisation in women and men, gastric probing, gastric lavage, enema, 8) standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation, 9) simple strip tests and blood glucose measurement;	Completion of the commissioned task	CC
E.U32	plan specialist consultations;	Completion of the commissioned task	CC
E.U38	maintain patient medical records.	Completion of the commissioned task	CC
G.U6	prepare medical certificates for patients, their families and other parties;	Completion of the commissioned task	CC
G.U7	recognise, when examining a child, behaviours and symptoms that indicate the possibility that violence against the child may have occurred;	Completion of the commissioned task	CC
G.U8	act in such a way as to avoid medical errors;	Completion of the commissioned task	CC

\* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

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



Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	180
2. Number of hours of distance learning:	n/a
3. Number of hours of student's own work:	90
4. Number of hours of directed self-study	n/a
Total student's workload	270
ECTS points for course	12,0
<b>Content of classes:</b>	
<p>During the six-week training cycle, the student actively participates in the work of the hematology out-patient clinic for children and the work of the children's oncohematology day hospital. Participates in the work of stationary wards: hematology, oncology, bone marrow transplantation and post-transplant. It covers the care of designated patients of the Clinic. The student conducts interviews, physical examinations, and simple diagnostic procedures. She/he participates in planning oncological and hematological diagnostics in children, ordering imaging and laboratory tests, and participates in specialist medical consultations. Interprets the obtained research results. The student participates in determining indications and contraindications for oncological and hematological treatment in children. He recognizes, conducts diagnostics and plans the treatment of infectious and non-infectious complications in pediatric oncology and hematology. He takes part in making decisions about inpatient, outpatient or home treatment. He takes part in supervising the patient after the treatment is completed, with an emphasis on monitoring the underlying disease and late complications of the applied therapies. The student takes an active part in keeping medical records, preparing recommendations, writing prescriptions and certificates. She/he learns to cooperate with a blood bank, laboratory, pharmacy, nursing team and psychologist. Learns the principles of conducting clinical trials in pediatric oncology and hematology.</p>	
Lectures – n/a	
Seminars – n/a	
<p><b>Classes</b></p> <p><b>Week 1 (30h).</b> Work in an out-patient pediatric hematology clinic, the course of comprehensive diagnostics in pediatric hematology.</p> <p><b>Week 2 (30h).</b> Work in a pediatric oncohaematology day-hospital, initial diagnosis, monitoring of the underlying disease and treatment complications in pediatric oncohaematology, one-day therapies.</p> <p><b>Week 3 (30h).</b> Work in a stationary pediatric oncohematology ward, comprehensive cancer therapy in children, early complications of oncohaematological therapy in children, cooperation with a blood bank, laboratory, pharmacy, nursing team, psychologist.</p> <p><b>Week 4 (30h).</b> Work in the bone marrow transplant department, care for the donor and recipient of hematopoietic cells, procedures for bone marrow collection and transplantation of hematopoietic cells, cell therapies (DLI, MSC, CAR T, antiviral lymphocytes, ECP), principles of immunosuppressive treatment.</p> <p><b>Week 5 (30h).</b> Work in the post-transplant unit and apheresis unit, monitoring of the graft function and early post-transplant complications, donation of peripheral blood cells, cooperation with a hematopoietic cell bank.</p> <p><b>Week 6 (30h).</b> Work in the post-transplant one-day stay unit, monitoring the function of the graft and late post-transplant complications. The role of clinical trials in pediatric oncohematology.</p>	
Other – n/a	
<p><b>Basic literature</b> (list according to importance, no more than 3 items)</p> <p>1. Nelson Textbook of Pediatrics, Robert M. Kliegman, Joseph St. Geme, 2-Volume Set, 21st Edition, 2019</p>	
<p><b>Additional literature and other materials</b> (no more than 3 items)</p> <p>1. Lanzkowsky's Manual of Pediatric Hematology and Oncology, Jonathan Fish Jeffrey Lipton Philip Lanzkowsky, 7th Edition, 2021</p>	
<b>Preliminary conditions:</b>	
Valid student ID, pass or conditional pass in the course Propaedeutics of Pediatrics, Pediatrics (1), Pediatrics (2), appropriate clothing (medical gown) and variable footwear, stethoscope, flashlight for examining the	



throat, basic skills in physical examination, collecting an interview, in case of epidemic threat: mask, gloves, visor.

**Conditions to receive credit for the course:**

Grading takes place in direct contact with the teacher. In justified cases, based on the Rector's decision grading may take place remotely. The condition for passing the course is an active participation in practical classes, completion of the commissioned clinical tasks and obtaining a positive assessment of the practical skills test, which is carried out on an ongoing basis, is conducted by the specialized tutor and ends with the end of the exercise block. Each absence must be made up for, including rector's days and dean's hours, e.g. by preparing a clinical case report as part of self-study.

Grade:	Criteria for courses ending with a grade <sup>3</sup> Practical assessment (skill test)
Very Good (5.0)	91-100%
Good Above (4.5)	81-90%
Good (4.0)	71-80%
Satisfactory Plus (3.5)	61-70%
Satisfactory (3.0)	51-60%
	<b>Criteria for courses ending with a credit<sup>3</sup></b>
Credit	n/a

Department in charge of the course:	Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology
Department address:	Borowska 213 Str., 50-556 Wrocław (entrance from Weigla Str.)
Telephone:	71 733 27 00, fax: 71 733 27 09
E-Mail:	pedhemat@umed.wroc.pl

Person in charge for the course:	Prof. dr hab. n. med. Krzysztof Kafwak
Telephone:	71 733 27 00, fax: 71 733 27 09
E-Mail:	pedhemat@umed.wroc.pl

**List of persons conducting specific classes:**

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Krzysztof Kafwak	prof. dr hab. n. med	medical science	physician, specialist in paediatrics, paediatric haematology and oncology, clinical immunology, clinical transplantation	clinical classes, lectures
Bernarda Kazanowska	prof. dr hab. n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Ewa Gorczyńska	dr hab. n. med. ,profesor UMW	medical science	physician, specialist in paediatrics, paediatric haematology and oncology, clinical transplantation	clinical classes, lectures

<sup>3</sup> The verification must cover all education results, which are realized in all form of classes within the course



Grażyna Wróbel	dr hab. n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Wojciech Pietras	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Marek Ussowicz	dr hab. n. med., profesor UMW	medical science	physician, specialist in paediatrics, paediatric haematology and oncology, clinical transplantation	clinical classes, lectures
Grzegorz Dobaczewski	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Jadwiga Węclawek - Tompol	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Elżbieta Latos - Grażyńska	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Joanna Owoc - Lempach	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Monika Mielcarek-Siedziuk	dr n. med.	medical science	physician, specialist in paediatrics, clinical transplantation	clinical classes, lectures
Igor Olejnik	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology, anaesthesiology and intensive care	clinical classes, lectures
Dorota Sęga-Pondel	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Małgorzata Salamonowicz-Bodzioch	dr n. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Katarzyna Gul	physician	medical science	physician, specialist in paediatrics, clinical immunology	clinical classes, lectures
Justyna Kwaśnicka	lek. med.	medical science	physician, specialist in paediatrics, paediatric haematology and oncology	clinical classes, lectures
Tomasz Jarmoliński	dr n. med.	medical science	physician, specialist in paediatrics, nephrology, paediatric	clinical classes, lectures




			nephrology, clinical transplantation	
Jowita Frączkiewicz	dr n. med.	medical science	physician, specialist in paediatrics	clinical classes, lectures
Elżbieta Wawrzyniak-Dzierżek	lek.	medical science	physician	clinical classes
Michalina Horochowska	lek.	medical science	physician	clinical classes
Justyna Miśkiewicz-Bujna	lek.	medical science	physician	clinical classes
Izabela Miśkiewicz-Migoń	lek.	medical science	physician	clinical classes
Monika Rosa	lek.	medical science	physician	clinical classes
Agnieszka Kwella	lek.	medical science	physician	clinical classes
Dawid Przystupski	lek.	medical science	physician	clinical classes
Paweł Marschollek	lek.	medical science	physician	clinical classes

Date of Syllabus development  
01.10.2021

Syllabus developed by  
dr n. med. Joanna Owoc-Lempach  
dr n. med. Monika Mielcarek-Siedziuk

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

Dean's signature

Wrocław Medical University  
Faculty of Medicine  
Vice-Dean for English Studies  
  
prof. Beata Sobieszkańska, PhD

Uniwersytet Medyczny we Wrocławiu  
KATEDRA I KLINIKA  
TRANSPLANTACJI SZPIKU, ONKOLOGII  
I HEMATOLOGII DZIECIĘCEJ  
kierownik  
prof. dr hab. Krzysztof Kalwak

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3. *[Faint text]*

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