

Syllabus for academic year: 2021/2022 Training cycle: 2017/2018-2022/2023													
Description of the course													
Course	NEONATOLOGY										Group of detailed education results		
											Group code	Group name	
											E	non invasive clinical science	
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	<input checked="" type="checkbox"/> 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"/> full-time <input type="checkbox"/> part-time												
Year of studies	V					Semester:	<input checked="" type="checkbox"/> winter <input type="checkbox"/> summer						
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> 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 Neonatology													
Direct (contact) education ¹	3	5			22								
Distance learning ²													
Summer semester:													
..... (Dep. in charge of the course)													
Direct (contact) education													
Distance learning													

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

² Education with applied methods and techniques for distance learning



TOTAL per year:												
Department of Neonatology	3	5			22							
Direct (contact) education												
Distance learning												
Educational objectives (max. 6 items) <ol style="list-style-type: none"> C1. Familiarizing students with the principles of perinatal care management, most frequent adaptation problems and disorders of the perinatal period. C2. Familiarizing the students with problems of the newborn with low birth weight. C3. Familiarizing the students with diagnostic and therapeutical procedures in transitional states, congenital defects and selected disorders of the neonatal period. C4. Establishing the ability to correctly asses the nutritional state of the newborn, including nutritional therapy and promoting natural feeding. C5. Familiarizing the students with rules of respiratory circulatory resuscitation after birth and procedures in the life threatening situations. C6. Development social competences needed to practice the medical profession, in accordance with graduate's profile. 												
Education result for course in relation to verification methods of the intended education result and the type of class:												
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.W2	Student describes the principles of nutrition for healthy and sick children, including natural feeding, immunisation and keeping a child's health record;				oral test	CC						
E.W3	The student knows the causes, symptoms, principles of diagnosis and therapeutic management of the diseases that are most frequent in children: rickets, tetany, convulsions, heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, vaso-vagal episodes, acute and chronic diseases of the upper and lower respiratory tract, congenital malformations of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema, anaemias, haemorrhagic diathesis, bone marrow failure, childhood cancers, including solid tumours typical of childhood, acute and chronic abdominal pain, vomiting, diarrhoea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, cholestasis and liver diseases and other acquired diseases and congenital defects of the gastrointestinal tract, urinary tract infections, congenital defects of the urinary tract, nephrotic syndrome, kidney stones, acute and chronic renal failure, acute and chronic nephritis, systemic kidney diseases, urinary disorders, vesicoureteral reflux disease, growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty and gonadal function disorders, cerebral palsy, encephalitis and meningitis, epilepsy, the most common childhood				oral test	L, SE, CC						



	infectious diseases, genetic syndromes, connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis;		
E.W5	The student knows the basic methods of diagnosis and treatment of the foetus;	oral test	SE, CC
E.W6	The student recognizes the most common life-threatening conditions in children and the management of these conditions;	oral test	SE, CC
E.W32	The student recognizes the basic aspects of prevention and the rules of conduct in the event of work-related exposure to hazardous and noxious agents;	oral	CC
E.W35	Student describes the main characteristics, environmental and epidemiological conditions of the most frequent skin diseases;	oral test	SE, CC
E.U4	The student can conduct a physical examination on a child of any age;	practical skills test	SE, CC
E.U8	The student can assess the neonate's Apgar score and maturity and examine neonatal reflexes;	practical skills test	SE, CC
E.U12	The student can perform differential diagnosis of the most common diseases of adults and children;	oral	SE, CC
E.U14	The student recognise immediate life-threatening conditions;	oral	CC
E.U16	The student can plan diagnostic, therapeutic and preventive procedures;	oral	CC
E.U24	The student interpret laboratory test results and identify causes of deviations from the norm;	oral	CC
E.U25	The student can administer nutritional treatment, including enteral and parenteral nutrition;	oral	CC
E.U26	The student can plan the management in the event of exposure to a blood-borne infection;	oral	SE, CC
E.U32	The student can plan specialist consultations;	oral	CC
E.U38	The student can maintain patient medical records.	oral	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:	30
2. Number of hours of distance learning:	
3. Number of hours of student's own work:	12,5
4. Number of hours of directed self-study	n/d



Total student's workload	42,5
ECTS points for course	2,0
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 <ol style="list-style-type: none">1. Common respiratory conditions of the newborn- 1,5 h2. Respiratory Distress Syndrome – surfactant administration- 1,5 h	
Seminars <ol style="list-style-type: none">1. Physiology of the fetal development and the adaptation to the extrauterine life. Screening tests in the neonatal period and mandatory vaccinations- 1 h2. Neonatal jaundice - diagnosis, differential diagnosis, treatment. Haemolytic disease of the newborn due to Rh and ABO incompatibility- 1h3. Congenital bacterial and viral infection – diagnosis and treatment- 1h4. Congenital malformations- 1h5. Three level perinatal care – basics of organization. Neonatal transport.- 1h.	
Classes <ol style="list-style-type: none">1. Managing the newborn in the delivery room, after natural birth and cesarean section delivery- 4.0 h CC2. Low newborn's birth weight - differential diagnosis, therapeutic management . Neonatal nutrition and nutrition therapy- 4.5 CC3. Infant of a diabetic mother. Interpretation of the laboratory tests- 4.5 CC4. Breathing disorders – differential diagnosis, therapeutic management. Resuscitation of the newborn- 4.5 CC5. Selected pathologies of the circulatory, urinal, nervous and digestive systems- 4.5 CC	
Other <ol style="list-style-type: none">1.2.3. ect.	
Basic literature (list according to importance, no more than 3 items) <ol style="list-style-type: none">1. John P. Cloherty, E.C Eichenwald, A.R. Hansen, A. R. Stark Manual of Neonatal Care- 2012 by Lippincott Williams& Wilkins, a Wolters Kluwer2. V.H. Kirpalani, Perlman Resident's Handbook of Neonatology- 2008	
Additional literature and other materials (no more than 3 items) <ol style="list-style-type: none">1. 1. R. Polin M. Yoder. Workbook in Practical Neonatology 5th editio -20142. G.B Merenstein. Handbook of Neonatal Intensive Care-2006	
Preliminary conditions: (minimum requirements to be met by the student before starting the course) Basic knowledge in the field of pediatrics and neonatology Multiple choice entry test verifying the basic knowledge of neonatology and the students preparedness for the class – 5 questions	
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) Attention! Attendance can not be a condition for passing the course <ol style="list-style-type: none">1. Multiple choice final test – 20 questions, including 15 questions verifying the gained knowledge and 5 questions verifying the ability to apply the knowledge in specific cases2. Practical skill in basic physical examination of a newborn	



3. Oral answer, case presentation

Grade:	Criteria for courses ending with a grade ³ seminar
Very Good (5.0)	95-100 % of positive responses from the test
Good Above (4.5)	85-94 % of positive responses from the test
Good (4.0)	79-84 % of positive responses from the test
Satisfactory Plus (3.5)	71-78 % of positive responses from the test
Satisfactory (3.0)	61-70 % of positive responses from the test
Grade:	Criteria for courses ending with a grade ³ clinical classes
Very Good (5.0)	composing and independent presentation of a given clinical case in a way that demonstrates full understanding of the problem and knowledge of the subject; thorough discussion of the issue; no content and terminological errors
Good Above (4.5)	composing and independent presentation of a given clinical case in a way that demonstrates full understanding of the problem and knowledge of the subject; full coverage of the issue; no content and terminological errors
Good (4.0)	composing and independent presentation of a given clinical case in a way that proves the understanding of the problem and knowledge of the subject; discussion of the issue; minor content and / or terminological errors
Satisfactory Plus (3.5)	attempting to present the given clinical case in a way that demonstrates understanding of the problem and knowledge of the subject; comprehensive, though superficial, discussion of the issue; minor content and / or terminological errors
Satisfactory (3.0)	attempting to present the given clinical case in a way that demonstrates at least partial understanding of the problem and knowledge of the subject; partial discussion of the issue; content and / or terminological errors
Criteria for courses ending with a credit ³	
Credit	

Grade:	Criteria for exam ³
Very Good (5.0)	
Good Above (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

Department in charge of the course:	Department of Neonatology
Department address:	Katedra i Klinika Neonatologii 50-556 Wrocław, ul. Borowska 213
Telephone:	71 73315 00, fax 71 733 15 09
E-Mail:	WL-30@umed.wroc.pl

Person in charge for the course:	Head of the Department : Prof dr hab.n.med. Barbara Królak-Olejnik,
Telephone:	71 73315 00, fax 71 733 15 09
E-Mail:	WL-30@umed.wroc.pl

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



List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Barbara Królak-Olejnik	prof.ab.n.med./MD.PhD dr.hab.n.med./MD.PhD	Pediatrics/Neonatology	physician physician	L/SE/CC
Dorota Paluszyńska	dr.n.med./MD.PhD	Pediatrics/Neonatology	physician	L/SE/CC
Monika Lachowska	dr.n.med./MD.PhD	Pediatrics/Neonatology	physician	SE/CC
Anna Szczygieł	dr.n.med./MD.PhD	Neonatology	physician	SE/CC
Matylda Czosnykowska-Łukacka	dr.n.med./MD.PhD	Neonatology	laboratory diagnostician	SE/CC laboratory diagnosis
Agnieszka Jalowska	Lek. med /MD	Pediatrics/Neonatology	physician	SE/CC
Karolina Karcz	Lek. med /MD	Neonatology	physician	CC
Izabela Lehman	Lek. med /MD	Neonatology	physician	CC
Barbara Tarsa	Lek. med /MD	Neonatology	physician	CC

Date of Syllabus development

30.06.2021

Syllabus developed by

Dorota Paluszyńska MD

Dean's signature

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

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

Uniwersytet Medyczny we Wrocławiu
KATEDRA I KLINIKA NEONATOLOGII
kierownik

prof. dr hab. med. Barbara Królak-Olejnik