

DESCRIPTION OF THE COURSE OF STUDY

Course code	12.6-3LEK-F-AiTDe	
Name of the course in	Polish	Anestezjologia i intensywna terapia dziecięca
	English	Anaesthesiology and intensive paediatric care

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	medicine
1.2. Mode of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study*	practical
1.5. Specialization*	lack
1.6. Unit running the course of study	Faculty of Medicine and Health Sciences UJK
1.7. Person/s preparing the course description	dr n. med. Małgorzata Szerla
1.8. Person responsible for the course of study	dr n. med. Małgorzata Szerla
1.9. Contact	malgorzata.szerla@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	facultative
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	9
2.4. Prerequisites*	anatomy, physiology, pathology, microbiology, immunology, pharmacology with toxicology, neurology, paediatrics, neonatology, surgery, paediatric surgery, gynaecology and obstetrics.

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lectures: 15 hours, classes: 20 hours
3.2. Place of classes	Lectures –in didactic rooms of the UJK Classes – Paediatric Anaesthesiology and Intensive Care Unit, Anaesthesiology Consultation Clinic; Department of Paediatric Surgery, Urology and Traumatology
3.3. Form of assessment	Credit with grade
3.4. Teaching methods	seminar, discussion, case study in natural conditions; participation in consultations and senior staff meetings
3.5. Bibliography	Required reading
	Further reading

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

<p>4.1. Course objectives <i>(including form of classes)</i></p> <p>C1 – Acquisition of knowledge concerning the specificity of paediatric anaesthesiology and intensive care (patients at developmental age) and risk management in interdisciplinary area of peri-operative medicine;</p> <p>C2 – Teaching the skills of anticipation, assessment and risk management, and optimization of peri-operative safety at all stages of management of a paediatric patient through peri-operative experience, i.e. during pre-hospitalization period, during and after hospitalization;</p> <p>C3 – Teaching ethical, holistic and interdisciplinary approach to the management of children during peri-operative period and in intensive care unit in accordance with the European Charter of Patients' Rights (2002) and the Helsinki Declaration on Patient Safety in Anaesthesiology (2010), and the Guidelines for safe anaesthesia of children by the Consultation Council of the Polish Association of Anaesthesiology and Intensive Care for the matters of Quality and Safety of Anaesthesia (2010).</p>
<p>4.2. Detailed syllabus <i>(including form of classes)</i></p> <p>LECTURES (lecture room at the UJK, conference room and/or seminar room at the Regional Polyclinical Hospital):</p> <ul style="list-style-type: none"> • Principles of optimization of safety and risk management in paediatric anaesthesiology and intensive care – dictated by age specificity of children at various periods of turbulent puberty and development (3 hours) • Legal aspects concerning anaesthetizing paediatric patients: Guidelines for safe anaesthesia of children by the Consultation Council of the Polish Association of Anaesthesiology and Intensive Care for the Matters of Quality and Safety of Anaesthesia, Regulation by the Minister of Health of 10 November 2006 (Journal of Laws, No.06.213.1568 with later amendment of 08.30.187) (3 hours) • Specificity of anaesthesia and intensive care in therapy of an infant: mature, pre-term, extremely immature with low

- birth weight (3 hours)
- Specificity of anaesthesia and intensive care in children with considerably elevated or extremely high peri-operative risk – children ‘too ill’ to undergo anaesthesia (3 hours)
- Ethics in neonatology and paediatrics – management with respect to a child with permanent life threatening incurable disease. Difficult and frank conversations with parents, whether to lavish an easy ‘promise’ of hope in intensive care. Palliative care an alternative for things which are impossible to fulfil. (3 hours)

PRACTICAL CLASSES (Anaesthesiology Consultation Clinic, Operating Block, Post-Operative Supervision Room – ‘awaking room’, laboratories for imaging tests and endoscopy, paediatric intensive care ward):

- Qualification of children for planned surgical procedures – assessment of peri-operative risk according to the ASA classification (3 hours)
- Supervising paediatric patient at all stages of general and local anaesthesia, and analgosedation (3 hours).
- Supervising child after anaesthesia and assessment of the degree of awakening following anaesthesia, and evaluation of the degree of awakening from anaesthesia according to the Steward. Algorithm of post-operative care directly after the procedure and discharge from the Post-Operative Supervision Room (awakening room) (5 hours).
- Participation in making diagnosis, monitoring and intensive care of children with disorders of consciousness, respiration, circulatory, renal, multi-organ injuries, burns, in severe sepsis and in septic shock (6 hours).
- Clinical, laboratory and spirometric monitoring of respiratory failure treated using a respirator (3 hours).

4.3 Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of KNOWLEDGE:		
W01	knows the most common life-threatening conditions in children and the rules of conduct in these states;	E.W6.
W02	knows the principles concerning the treatment of pain, including cancer and chronic pain;	E.W29.
W03	knows and understands the capabilities and limitations of laboratory tests in emergency situations;	E.W39.
W04	knows eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;	F.W3.
W05	knows perioperative safety rules, preparing a patient for surgery, general and local anesthesia and controlled sedation	F.W4.
W06	knows postoperative treatment and analgesic therapy as well as post-operative monitoring;	F.W5.
W07	knows indications and rules for the application of intensive therapy;	F.W6.
W08	knows the current guidelines for cardiopulmonary resuscitation of the newborns, children and adults;	F.W7.
W09	knows the principles of the integrated state system of medical rescue;	F.W8.
W10	knows the problem of surgical transplantation, indications for the transplantation of irreducibly damaged organs and tissues, and related procedures;	F.W14.
W11	knows the rules concerning the diagnosis of brain death.	F.W15.
within the scope of ABILITIES:		
U01	conducts a review of medical history of the child and its family;	E.U2.
U02	conducts physical examination of the child at any age;	E.U4.
U03	performs differential diagnosis of the most common diseases in adults and children;	E.U12.
U04	assesses and describes the somatic and mental state of patients;	E.U13.
U05	recognizes states of a direct threat to life;	E.U14.
U06	recognizes when a patient is under the influence of alcohol, drugs and other addictive products;	E.U15.
U07	plans diagnostic, therapeutic and preventive procedures;	E.U16.
U08	conducts analysis of the potential side effects of each drug and the interaction between them;	E.U17.
U09	applies dietary treatment (including enteral and parenteral feeding);	E.U25.
U10	implements the basic therapeutic procedure in acute poisoning;	E.U33.
U11	monitors the status of a patient poisoned by chemical substances or drugs;	E.U34.
U12	performs basic resuscitation with automated external defibrillator and other rescue activities and provides first aid;	F.U10.
U13	acts in accordance with the current algorithm of advanced life support activities;	F.U11.
U14	monitors the postoperative period basing on the basic parameters of life;	F.U12.

U15	during child examination recognizes symptoms indicating the possibility of using violence against the child;	G.U5.
U16	collects blood for toxicological studies and secures the material for hemogenetic research in accordance with given principles.	G.U7.

4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others*		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
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*delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	61%-68% Acquisition of the program content on basic level, chaotic answers, necessary directing questions
	3,5	69%-76% Acquisition of the program content on basic level, systematized answers, needs teacher's help
	4	77%-84% Acquisition of the program content on basic level, systematized and independent answers. Solves problems in typic situations
	4,5	85%-92% Presented knowledge exceeds the basic level based on given complementary literature. Solves problems in new and complex situations
	5	93%-100% Presented knowledge exceeds the basic level based on individually obtained scientific source of information

- **Thresholds are valid from 2018/ 2019 academic year**

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	35
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	20
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	15
<i>Preparation for the lecture*</i>	
<i>Preparation for the classes, seminars, laboratories*</i>	10
<i>Preparation for the exam/test*</i>	5
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
TOTAL NUMBER OF HOURS	50
ECTS credits for the course of study	2

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

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