



Syllabus 2019/2020														
Description of the course														
Module/Course	Anesthesiology and Intensive Therapy										Group of detailed education results			
											Group code	Group name		
											F	Interventional Clinical Sciences		
Faculty	Medicine													
Major	medicine													
Specialties	Not applicable													
Level of studies	Uniform magister studies X * 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	X full-time <input type="checkbox"/> part-time													
Year of studies	IV					Semester		X Winter <input type="checkbox"/> Summer						
Type of course	X obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course	<input type="checkbox"/> major X basic													
Language of instruction	<input type="checkbox"/> Polish X 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														
Chair and Department of Anaesthesiology and Intensive Therapy	20				45								100,5	
Summer Semester: not applicable.														
TOTAL per year														



Chair and Department of Anaesthesiology and Intensive Therapy	20				45								100, 5

Educational objectives (max. 6 items)

- C1. Acquisition of knowledge and skills in the diagnosis of life-threatening conditions, the principles of using intensive therapy, suspicion and diagnosis of brain death, guidelines for cardiopulmonary resuscitation.
- C.2 - teaching the principles of patient preparation for surgery.
- C.3 - teaching the basics of general and regional anesthesia.
- C.4 - teaching the rules of conducting pain therapy in various clinical situations.
- C.5 - solving ethical dilemmas in the care of a critically ill.
- C.6 - acquisition of skills in: performing basic and advanced resuscitation procedures with the use of an automatic external defibrillator, monitoring the patient in the perioperative period, assessing the unconscious state in accordance with the applicable scales, performing procedures and medical procedures, such as: monitoring vital signs at cardiomonitor assistance, pulse oximetry, oxygen therapy, assisted and replacement ventilation, introduction of the oropharyngeal tube, peripheral vein cannulation.

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>
K 01	F.W3	Knows the rudiments of qualification, performance and side effects of basic surgical and invasive diagnostic procedures	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
K 02	F.W4	Knows the principles of perioperative safety, preparing patient to general/regional anaesthesia or conscious sedation	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
K 03	F.W5	Knows the basic principles of perioperative fluids treatment, postoperative vital functions monitoring and analgesia adult and paediatric	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
K 04	F.W6	Knows the practical application of intensive therapy principles	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC



K 05	F.W7	Knows the present ERC resuscitation guidelines adults and paediatric	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
K 06	F.W 15	knows the rules of issuing the suspicion and diagnosis of brain death	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 01	F. U5	performs peripheral vein access	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 02	F. U9	supplies external bleeding	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 03	F.U10	Performs CPR with defibrillator application and other first medical aid activities	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 04	F.U11	Performs advanced CPR activities according to present ERC Guidelines	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 05	F.U12	Applies monitoring of vital functions in postoperative period	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC
S 06	F.U20	Assess the unconscious patient using the international scoring systems	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test	L, CC



			<u>Forming methods:</u> Assessment of preparation for classes	
S 07	F. U21	recognizes the symptoms of increasing intracranial pressure	<u>Summarising methods:</u> Evaluation of practical skills, Exam: final test <u>Forming methods:</u> Assessment of preparation for classes	L, CC

** 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: 4

Skills: 5

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	65
2. Student's own work (self-study):	100,5
Total student's workload	165,5
ECTS points for module/course	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:

1. Death of the brain.
2. Acute and chronic pain.
3. Shock.
4. Sepsis.
5. Basic of general anaesthesia.
6. Acute respiratory failure- ventilator treatment.
7. Hemodynamic monitoring.
8. Extracorporeal therapy- organ function support.
9. Acute bleeding –diagnosis and treatment.
10. Basics of intensive pediatric therapy.

Seminars: not applicable.

Practical classes: (45 hours, classes are held according to the schedule: 8 X 4 hours = 32 hours in the Chair and Clinic of Anaesthesiology and Intensive Therapy and 2x6,5 hours = 13 hours in the Simulation Center.)

Exercise 1.

Organizational class. Entry test- knowledge of guidelines for cardiopulmonary resuscitation.

Monitoring and documentation in the intensive care unit.

Treatment of unconscious patients. Acid-alkaline and water-electrolyte balance with interpretation of



tests.

Exercise 2.

Treatment of respiratory failure, principles of oxygen therapy. Airway cannulation - equipment demonstration

Exercise 3.

Treatment of acute circulatory failure. Electrocardiotherapy: defibrillation, cardioversion, cardiac electric stimulation.

Exercise 4.

Intravenous fluid delivery: central venous puncture - equipment demonstration. Principles of pressure measurement by invasive method. Haemodynamic monitoring.

Exercise 5.

The rules of artificial nutrition. Principles of renal replacement therapy. Diagnosis and treatment of infections in the intensive care unit.

Exercise 6.

Basics of intensive pediatric therapy. The specifics of pediatric anesthesia.

Exercise 7.

Preparation of the patient for surgery in adults. Basic methods of general anesthesia. Regional anesthesia. Monitoring of the patient during surgery. Specialized anesthesia.

Exercise 8.

Sudden cardiac arrest in adults and children. Postoperative analgesia in adults and children. Laboratory methods for multi-organ failure assessment.

Exercise 9.

Patient in ICU- -septic, anaphylactic and hypovolemic shock. Skills: maintaining airway patency , peripheral access , patient monitoring- clinical simulation scenarios.

Exercise 10.

Anesthesia of the patient for surgery –management in cardiac arrest with VT/VF and asystole/PEA . Exercises based on the material realized. Skills: maintaining airway patency, lumbar puncture, defibrillator handling- clinical simulation scenarios.

Other: not applicable.

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

1. Paul Marino, The Little ICU Book 2 E, Lippincott Williams&Wilkins, 2016.
2. Textbook of Critical Care Fink MP, Abraham E., Vincent JL., Kochanek PM Philadelphia 2011, VII-th Edition Elsevier
3. Fundamental of Anaesthesia, T. Smith, C. Pinnock, et al, Feb. 2011

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

1. 2015 ERC Guidelines for Adult Basic Life Support
2. 2015 ERC Guidelines for Pediatric Basic Life Support

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

Multimedia projector

Simulation training system:

An advanced adult patient simulator in the operating room and intensive care unit

Airway trainer (3x), laryngoscopes (3x), intubation tubes (1 tube / 10students), laryngeal masks (1/30



students), LT lungs (1/30 students), oropharyngeal tubes (3 sets), ambu (3 x), facial mask (3x), filter
Training simulator for peripheral insertion (3x), peripheral catheters (1 piece for a student), vascular
stasis (3x).

Lumbar puncture simulator, 25G 1 / overpassed needle / per student.

Gloves 5 pairs / per student

Preliminary conditions: knowledge of anatomy, pathophysiology, internal diseases, knowledge of
guidelines for cardiopulmonary resuscitation in 2015-entry test.

Conditions to receive credit for the course (specify the form, criteria 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).

The condition to receive credit for the course is to attend all classes in accordance with the Study
Regulations. In the case of an excused absence - the student is obligated to make up the classes after prior
agreement with the teaching adjunct. Each absence must be made up, including rector days and dean's
hours - the way and form of doing the classes after prior arrangement with a teaching adjunct.
Admission to the exam-positive passing of practical skills.

Final exam is written test. It consists of 60 questions and only one answer is correct. To pass the exam
the student must to have a minimum of 60% of correct answers. The criteria given in % may only be
reduced after analyzing the degree of difficulty of the test.

Grade:	Criteria for course
Very Good (5.0)	has knowledge of each of the content of education at the level of 90% -100%
Good Plus (4.5)	has knowledge of each of the content of education at the level of 84%-89%
Good (4.0)	has knowledge of each of the content of education at the level of 77%-83%
Satisfactory Plus (3.5)	has knowledge of each of the content of education at the level of 70%-76%
Satisfactory (3.0)	has knowledge of each of the content of education at the level of 60%-69%

Grade:	Criteria for exam (if applicable)
Very Good (5.0)	90-100% of correct answers
Good Plus (4.5)	84-89% of correct answers
Good (4.0)	77-83% of correct answers
Satisfactory Plus (3.5)	70-76% of correct answers
Satisfactory (3.0)	60-69% of correct answers

Name of unit teaching course:	Chair and Department of Anaesthesiology and Intensive Therapy
Address	50-556 Wrocław, ul. Borowska 213
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E-mail	kai@umed.wroc.pl
Person responsible for course:	Waldemar Goździk, MD, Professor, Ph. D
Phone	71 733 23 10
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<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>
Barbara Adamik	MD, Ph.D	Medical biology	Medical Analyst	L, CC
Barbara Barteczko-Grajek	MD, Ph.D	Medicine	physician; u.t.	CC, CSC
Waldemar Gołębiowski	MD, Ph.D	Medicine	physician; u.t.	CC
Waldemar Goździk	MD, Professor, Ph. D	Medicine	physician; u.t.	L, CC
Bogusława Lechowicz-Głogowska	MD, Ph.D	Medicine	physician; u.t.	CC, CSC
Małgorzata Grotowska	MD,	Medicine	physician; u.t.	CC, CSC
Anna Kupiec	MD	Medicine	physician; u.t.	CC, CSC
Marceli Łukaszewski	MD, Ph.D	Medicine	physician; u.t.	CC, CSC
Tomasz Skalec	MD,	Medicine	physician; u.t.	CC, CSC
Jakub Śmiechowicz	MD, Ph.D	Medicine	physician; u.t.	CC, CSC
Marek Wełna	MD, Ph.D	Medicine	physician; u.t.	CC, CSC
Marzena Zielińska	MD, Ph.D	Medicine	physician; u.t.	L, CC
Stanisław Zieliński	MD, Ph.D	Medicine	physician; u.t.	CC, CSC

Date of Syllabus development

11.07.2019

Syllabus developed by

B. Barteczko-Grajek, MD

Ph.D.....

Unwersytet Medyczny we Wrocławiu
KATEDRA KLINIKA ANESTEZJOLOGII
I INTENSYWNEJ TERAPII
kierownik

dr hab. n. med. Waldemar Goździk, prof. nadzw.

Signature of Faculty Dean

Unwersytet Medyczny we Wrocławiu
WYDZIAŁ LEKARSTWA
Pracownik ds. nauki
w języku angielskim

prof. dr hab. Andrzej Hendrich

