



**48SJ-AIC**  
**ECTS: 3**  
**YEAR: 2024L**

**ANESTHESIOLOGY AND INTENSIVE CARE**  
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**COURSE CONTENT**  
**CLASSES**

Anaesthesiology and Intensive Care Medicine in Poland and in the world: the first steps, directions of the development and current issues. 2. Post-resuscitation syndrome. 3. General anaesthesia - narcosis. 4. Regional anaesthesia. 5. Anaesthesia of patients with high-risk of complications. 6. Peculiarity of anaesthetic management in short and emergency surgical procedures. 7. New model of hemostasis - diagnostic and therapeutic aspects. 8. Sepsis - SIRS - severe sepsis - septic shock: principles of diagnosis and management. 9. Diagnosis and management of acute pain

**LECTURES**

The construction of the camera to the anesthesia. Basics of ventilation replacement. Ventilation in the face mask. Rules intubation. Installing non-invasive methods for monitoring during anesthesia. Opioid analgesics; pharmacokinetics, pharmacodynamics, side effects Regional anesthesia - methods of identification of neural structures Side effects of local anesthesia - the nature of different types of anesthesia non-invasive and invasive methods of treatment of postoperative pain. Installing non-invasive monitoring in the ICU. Methods of reactive oxygen therapy. Non-invasive ventilation. Basic modes of positive pressure ventilation. Practical aspects of therapy catecholowymi amines, and drugs acting on the cardiovascular system. Rules of conduct antibiotic. Nutritional therapy in OIT

**EDUCATIONAL OBJECTIVE:**

Preparing the student to the work at the ward is a purpose of the teaching of a subject of intensive care by purchasing the knowledge and the ability in recognizing pose threats of living and taking due therapeutic interventions after multiorgan grudges, in it crani- cerebral. Of acting in curing the postoperative pain based on the acquaintance of principles of the general anesthesia and regional. Solving ethical dilemmas in the care above critically for sick persons.

**DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES**

Codes of learning outcomes in a major field of study: M/NM+++,

Codes of learning outcomes in a major area of study: F.U5.++, F.W3.+ , F.W4.+ , F.W5.+ , F.W6.+ , K.1.+ , K.2.+ , K.3.+ , K.4.+ ,

**LEARNING OUTCOMES:**

**Knowledge**

- W1 - knows the rules of qualification and performance as well as the most common complications of basic surgical procedures and invasive diagnostic and therapeutic procedures
- W2 - He knows the indications and rules for intensive therapy
- W3 - He knows the safety rules perioperative, preparing a patient for surgery, anesthesia general and local and controlled sedation
- W4 - He knows the treatment of post-operative analgesic therapy and monitoring postoperative

**Skills**

- U3 - Monitors the duration of postoperative patients on the basis of the basic parameters of the life
- U5 - Assumes peripheral puncture

**Social competence**

- K1 - Able to establish and maintain a deep respectful contact with the patient
- K2 - He directs the good of the patient, putting them in first place
- K3 - Maintain the confidentiality of medical and patient rights
- K4 - It is aware of his own limitations and the ability of permanent further education

**BASIC LITERATURE**

- 1) Tim Smith, Ted Lin, .Fundamentals of Anaesthesia 4th edition by Colin Pinnock, wyd. wyd. Cambridge University Press., 2016 ; 2) The fourth edition of "Surviving Sepsis Campaign: International Guidelines for Management of Sepsis , <https://link.springer.com/article/10.1007%2Fs00134-017-4683-6>, wyd. International Guidelines for Management of Sepsis and Septic Shock, 2016 ; 3) Guidelines for the Management of Severe TBI, <https://braintrauma.org/guidelines/guidelines-for-the-management-of-severe-tbi-4th-ed#/>, wyd. braintrauma.org, 2018

**SUPPLEMENTARY LITERATURE**

- 1) Ronald Miller & Co, Miller's, Anaesthesia 8th Revised edition by , wyd. wyd. Elsevier Health Sciences, 2015

<b>Course/module:</b>	
Anesthesiology and Intensive Care	
<b>Fields of education:</b>	
<b>Course status:</b>	mandatory
<b>Course group:</b>	B - przedmioty kierunkowe
<b>ECTS code:</b>	
<b>Field of study:</b>	Medicine
<b>Specialty area:</b>	Medicine
<b>Educational profile:</b>	General academic
<b>Form of study:</b>	full-time
<b>Level of study:</b>	uniform master's studies
<b>Year/semester:</b>	5 / 10
<b>Type of course:</b>	
Classes, Seminar, Lecture	
<b>Number of hours per semester/week:</b>	Classes: 45, Seminar: 10, Lecture: 5
<b>Teaching forms and methods</b>	
Classes(K1, K2, K3, K4, U3, U5, W1, W2, W3, W4) : Classes Practical classes - of training in the Branch of the intensive care and an operating block, , Seminar(K1, K2, K3, K4, U3, U5, W1, W2, W3, W4) : Discussing clinical coincidences, Lecture(K1, K2, K3, K4, U3, U5, W1, W2, W3, W4) : lecture with the multimedia presentation	
<b>Form and terms of the verification results:</b>	
CLASSES: Competention test - : Competention test - The test of 10 questions, provided credit is to obtain 70% correct answers(K1, K2, K3, K4, U3, U5, W1, W2, W3, W4)	
<b>Number of ECTS points:</b>	3
<b>Language of instruction:</b>	English
<b>Introductory courses:</b>	
anatomy, physiology, pathobiology, pharmacology	
<b>Preliminary requirements:</b>	
Knowledge of Apt ALS guidelines, BLS at adults and children	
<b>Name of the organizational unit offering the course:</b>	
Katedra Anestezjologii i Intensywnej Terapii,	
<b>Person in charge of the course:</b>	
prof. dr hab. n. med. Ewa Mayzner-Zawadzka, , dr n. med. Dariusz Onichimowski,	
<b>Course coordinators:</b>	
<b>Notes:</b>	

Detailed description of the awarded ECTS points - part B

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The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	45 h.
- participation in: seminar	10 h.
- participation in: lecture	5 h.
- consultation	5 h.
	65 h.

2. Student's independent work:

- prepare students for classes and exam	10 h.
	10 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 75 h : 25 h/ECTS = 3,00 ECTS  
on average: **3 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	2,60 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	0,40 ECTS points,