

SYLLABUS
concerning the cycle of education 2023-2029
(date range)

1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

Subject / Module	Anesthesiology and intensive therapy
Course code / module *	AIT/F
Faculty of (name of the leading direction)	Medical College of Rzeszów University
Department Name	Medical College of Rzeszów University
Field of study	medical direction
Level of education	uniform master's studies
Profile	practical
Form of study	stationary / extramural
Year and semester	year IV, semester VIII
Type of course	obligatory
Coordinator	Dr hab. B Wołoszczuk-Gębicka
First and Last Name of the Teacher	

* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
30	30	-	-	-	-	-	-	3

1.3. The form of class activities

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, credit with grade or credit without grade)

2. REQUIREMENTS

Knowledge of the anatomy and physiology of respiratory and circulatory systems. Knowledge of the basic principles of first aid.
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3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

3.1. Objectives of this course/module

C1	Developing the rules for dealing with the patient in life-threatening situations.
C2	Provide the latest guidelines for cardiopulmonary resuscitation and practical CPR rules in adults and children
C3	Acquainting with the rules of general and ductal anesthesia in various surgical fields.
C4	An approximation of the rules for the qualification of patients for treatment in the intensive care unit.
C5	Theoretical and practical rules of conduct in acute and chronic pain as part of the activity of the Hospital Pain Relief and Preclinical Pain Treatment Clinic.

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	He knows the principles of pain treatment, including cancer and chronic pain	E.W29
EK_02	He knows the principles of perioperative safety, patient preparation for surgery, general anesthesia, local and controlled sedation	F.W4
EK_03	He knows post-operative treatment including analgesia and post-operative monitoring	F.W5
EK_04	He knows the indications and rules for the use of intensive therapy	F.W6
EK_05	He knows the principles of suspicion and the recognition of brain death.	F.W15
EK_06	Assumes peripheral puncture	F.U5
EK_07	It works according to the current algorithm of advanced resuscitation activities	F.U11
EK_08	Student is able to monitor the postoperative period based on basic life parameters	F.U12
EK_09	He is guided by the good of the patient, placing them in the first place	K.02.

3.3 CONTENT CURRICULUM (filled by the coordinator)

A. Lectures

Course contents
Why should an anesthesiologist assess the patient before the planned surgery?
Risk related to anesthesia.

What should every doctor know about relieving postoperative pain?
Organization and basics of intensive care units.
Malignant hyperthermia syndrome.
The specifics of pediatric anesthesia.
Basics of intensive pediatric therapy.
Treatment of respiratory failure, principles of oxygen therapy.
Treatment of acute circulatory failure. Electrocadiotherapy: defibrillation, cardioversion, cardiac electric stimulation.
Diagnosis and treatment of infections in the intensive care unit.
The rules of artificial nutrition. Principles of renal replacement therapy.

B. Exercises

Course contents
Preparation and qualification of patients for anesthesia
Anesthesia
General anesthesia and its stages
Treatment of acute and chronic pain
Anesthesia outside the operating room. Perioperative care and postoperative monitoring
Anesthesia in various surgical fields
Dangerous states of life
Anesthetic equipment
Anesthetic drugs and other agents used in anesthesiology
Monitoring of cardiovascular and respiratory functions, Sepsis, septic shock

3.4 TEACHING METHODS

Lecture: multimedia presentation.

Exercises: practical exercises, demonstration, lecture form.

Student's own work: working with a book, preparing for classes and preparing for the test and exam.

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01, EK_02, EK_03, EK_04, EK_05	Written test	Lecture
EK_06, EK_07, EK_08, EK_09	Practical pass	Exercises

4.2 Conditions for completing the course (evaluation criteria)

Lectures (EK_01, EK_02, EK_03, EK_04 EK_05):

1. test pass and open questions:

A: Questions in the field of messages to remember;

B: Questions in the field of speech to understand;

C: Solving a typical written task;

D: Solving an atypical writing task;

- for insufficient solution of tasks only from areas A and B = grade 2.0

- for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0

- for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0

- for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0

Knowledge assessment:

Written test

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

Classes, seminars (EK_06, EK_07, EK_08):

1. full participation and activity in the exercises

2. written partial credits

Range of ratings: 2.0 - 5.0

Skill assessment

5.0 - the student actively participates in the classes, is well prepared, knows the principles of perioperative safety, prepares the patient for surgery, performs general and local anesthesia, assists in a typical surgical procedure

4.5 - the student actively participates in the classes, knows the principles of perioperative safety, prepares the patient for surgery, performs general and local anesthesia, assists with typical surgery

4.0 - the student actively participates in the classes, is improved, knows the principles of perioperative safety, prepares the patient for surgery, performs general and local anesthesia, assists with typical surgery, is corrected

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he knows the principles of perioperative safety, preparing the patient for surgery, performing general and local anesthesia, assists with typical surgery

3.0 - the student participates in classes, knows the principles of perioperative safety, prepares the patient for surgery, performs general and local anesthesia, assists with a typical surgical procedure, but is often corrected

2.0 - the student passively participates in the classes, the statements are incorrectly substantive, do not know the principles of perioperative safety, prepare the patient for surgery, perform general and local anesthesia, do not assist with typical surgery, because he makes a lot of mistakes

5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	Hours / student work
Hours of classes according to plan with the teacher	60
Preparation for classes	5
Participation in the consultations	2
The time to write a paper / essay	
Preparation for tests	10
Participation in colloquia	1
Other (e-learning)	-
SUM OF HOURS	78
TOTAL NUMBER OF ECTS	3

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

6. LITERATURE

READING: 1. Anestezjologia Larsena tom 1-2 (komplet) Reinhard Larsen, red. wyd. pol. Andrzej Kübler Elsevier Urban & Partner, 2013 2. Podstawy anestezjologii, Tim Smith, Colin Pinnock, Ted Lin, red. wyd. pol. Andrzej Kański DB Publishing, 2012, 3. Anestezjologia kliniczna z elementami intensywnej terapii i leczenia bólu (tom 1-2) Ewa Mayzner-Zawadzka, Wydawnictwo Lekarskie PZWL, 2009 4. Anestezjologia Larsena tom 1 i 2, Reinhard Larsen, red. wyd. pol. Andrzej Kübler Elsevier Urban & Partner, 2013 5. Oksfordzki podręcznik anestezjologii, Keith G. Allman, Iain H. Wilson, red. wyd. pol. Ewa Mayzner-Zawadzka, Medipage, 2009 6. Anestezja u pacjenta z chorobami współistniejącymi Roberta L. Hines, Katherine E. Marschall, red. wyd. pol. Janusz Andres, Elsevier Urban & Partner, 2011 7. Anestezjologia ambulatoryjna, Johan Raeder, red. wyd. pol. Dariusz Kisson, Wydawnictwo Lekarskie PZWL, 2013
Additional literature: 1. Wytoczne resuscytacji 2010, red. Janusz Andres Polska Rada Resuscytacji, 2011 2. Intensywna terapia, Najważniejsze zagadnienia Fang G. Smith, Joyce Yeung, red. wyd. pol. Tomasz Gaszyński, Wydawnictwo Lekarskie PZWL, 2013, 3. ABC resuscytacji, Michael C. Colquhoun, Anthony J. Handley, T.R. Evans, red. wyd. pol. Juliusz Jakubaszko, Górnicki Wydawnictwo Medyczne, 2006 4. Anestetyczne środki wziewne, Marcin Rawicz Wydawnictwo Lekarskie PZWL, 2007 5. Anestezja. Znieczulenie regionalne i postępowanie przeciwbólowe. Dell R. Burkner, Elsevier Urban & Partner, 2011 6. Anestezjologia dziecięca, Tadeusz Szreter Wydawnictwo Lekarskie PZWL, 2013

Acceptance Unit Manager or authorized person