



Anesthesiology and pain therapy

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine and Dentistry
Field of study	English Division Dentistry
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Obligatory
Form of verification of learning outcomes	Credit on completion (test with a mark)
Educational Unit / Educational Units	1 st Department of Anesthesiology and Intensive Care, Medical University of Warsaw, Lindleya 4, 02-005 Warsaw, Poland. Telephone: +48 22 502 1721; email: klinanest1@wum.edu.pl; webpage: www.anestezjologia1.wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Dr hab. n. med. Janusz Trzebicki

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów
(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

Course coordinator	Dr hab. n. med. Janusz Trzebicki, Telephone: +48 22 502 1721; email: jtrzebicki@wum.edu.pl
Person responsible for syllabus	Marek Janiak MD PhD, Telephone: +48 22 502 1721; email: marek.janiak@wum.edu.pl
Teachers	Jan Pluta MD PhD, jan.pluta@wum.edu.pl; Beata Błaszczyk MD PhD, beata.blaszczyk@wum.edu.pl; Marcin Kołacz MD PhD, marcin.kolacz@wum.edu.pl; Lidia Jureczko MD PhD, lidia.jureczko@wum.edu.pl; Rafał Kowalczyk MD PhD, rafal.kowalczyk@wum.edu.pl; Paweł Zatorski, pawel.zatorski@wum.edu.pl; Grzegorz Górniewski MD PhD, grzegorz.gorniewski@wum.edu.pl; Marek Janiak MD PhD, marek.janiak@wum.edu.pl; Piotr Mieszczkański MD, piotr.mieszczanski@wum.edu.pl; Romana Cal MD, romana.cal@wum.edu.pl; Przemysław Bornsztajn MD, przemyslaw.bornsztajn@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	III year, VI semester	Number of ECTS credits	1.5
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		10	0.5
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		10	0.5
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		10	0.5

3. COURSE OBJECTIVES

O1	Knows and understands how to prepare a patient for surgery and anesthesia, the related methods of anesthesia and safe use of local anesthetics
O2	Understands the concepts of pain management including methods of analgesia, alleviation of stress and anxiety
O3	Understands the basic knowledge of diagnosis and management of facial and oral pain syndromes

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in accordance with standards of learning	Effects in time
--	-----------------

Knowledge – Graduate knows and understands:

F.W10.	principles of pharmacological and non-pharmacological treatment of acute and chronic, neoplastic, neuropathic pain and the specificity of pain management in different patient groups;
F.W17.	differential diagnosis of orofacial pain;
F.W20.	principles of pain relief in dental practice including appropriate means and methods of anaesthesia;

Skills– Graduate is able to:

F.U12.	diagnose headaches and facial pains as well as neurological diseases in various groups of patients that cause problems in dental practice;
F.U14.	use pharmacological and non-pharmacological methods of relieving pain associated with a dental procedure and dental anxiety and stress;
E.U21.	perform basic medical procedures and interventions, including temperature measurement, pulse measurement, non-invasive blood pressure measurement, oxygen therapy, assisted and substitute ventilation, insertion of an oropharyngeal tube, preparation of the operating field, hygienic and surgical hand disinfection, intravenous, intramuscular, and subcutaneous injections, peripheral venous blood sampling, nasal, throat, and skin swabs, simple strip tests, blood glucose measurement, management of syncope, shock and sudden cardiac arrest.

5. ADDITIONAL EFFECTS OF LEARNING

Number of effect of learning	Effects of learning i time
------------------------------	----------------------------

Knowledge – Graduate knows and understands:

K1	-
----	---

Skills– Graduate is able to:

S1	-
----	---

Social Competencies – Graduate is ready for:

SC1	-
-----	---

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lecture	W1. Lecture 1. Pain as a basic symptom in medicine – to treat or not to treat. The aim of the lecture is to teach basic physiology and pathophysiology of acute and chronic pain as well as basic therapies of pain	E.W10.
	W2. Lecture 2. Principles of regional anesthesia. Toxicity of local anesthetics. The aim of the lecture is to teach the mechanism of action of local anesthetics, dosing and types as well as symptoms of Local Anesthetic Systemic Toxicity (LAST)	E.W10., F.W20., F.U14.
	W3. Lecture 3. Preparation of patient for anesthesia. The aim of the lecture is to introduce principles of preparing a patient for anesthesia.	F.W20.
	W4. Lecture 4. General anesthesia and its pharmacology. The aim of the lecture is to present the principles of general anesthesia including the medications used by the anesthesia provider	F.U14., F.W20.
	W5. Lecture 5. Anesthesia in dentistry. The aim of the lecture is to present the principles of qualifying a patient for general anesthesia, methods of assessing risk related to general anesthesia, basics of premedication, sedation during procedures, types and ways of providing sedation, methods of maintaining a patent airway, oxygen therapy, principles and methods of monitoring a patient during sedation, differences related to general anesthesia in dentistry and maxillofacial surgery	E.W10., F.W14., F.W20.
	W6. Lecture 6. Chronic pain in dentistry. The aim of the lecture is to present pain syndromes, including facial pain, in dentistry, methods of recognizing and therapy of these pain syndromes, principles of management of acute, postoperative, persistent postoperative, nociceptive, neuropathic and chronic pain related to dentistry	E.W10., F.W17., E.U12.
Practical classes	Practical classes in operating theatres, anesthetic block rooms, postanesthesia care units – basic principles of anesthesiology and pain therapy – PART 1	E.U21., E.W10, F.W17., E.W20., E.W14., E.U12.
	Practical classes in operating theatres, anesthetic block rooms, postanesthesia care units – basic principles of anesthesiology and pain therapy – PART 2	E.U21., E.W10., F.W17., E.W20., E.W14., E.U12.

7. LITERATURE
Obligatory
1. Anesthesia for dentistry. Continuing Education in Anaesthesia, Critical Care & Pain Volume 5 Number 3 2005 2. Anaesthesia and common oral and maxillo-facial emergencies. Continuing Education in Anaesthesia, Critical Care & Pain Volume 12 Number 5 2012 3. 2017 Baart. Local Anaesthesia in Dentistry. ISBN: 9783319437040 (access via biblioteka.wum.edu.pl) 4. 2015 Bosack. Anesthesia complications in the dental office. Online ISBN:9781119053231 (access via biblioteka.wum.edu.pl)
Supplementary

European Resuscitation Council (ERC) Guidelines on Basic Life Support (BLS) via www.erc.edu

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W10., F.W17., F.W20., F.U14., E.U14., E.U12., E.U.21.	Theoretical knowledge: confirmed by presence during lectures and a positive result of the final test. Practical knowledge: confirmation by teacher during practical classes of skills obtained by student.	- Active participation in all practical classes. - Presence during all lectures - Final test – 15 single best answer questions. CRITERIA FOR MARKS: 2.0 (fail) 0-7 correct answers 3.0 (satisfactory) 8-9 correct 3.5 (rather good) 10 correct 4.0 (good) 11-12 correct 4.5 (more than good) 13 correct 5.0 (very good) 14-15 correct

9. ADDITIONAL INFORMATION

During the practical classes and on contact with patients, we recommend medical clothing with short sleeves. Please do not wear private clothing. In case of using a white apron on personal clothing, the apron should be fastened. Long hair should be pinned back. It is necessary to change to theatre applicable footwear with adherence to safety rules. During practical classes in areas with patients – the rule “nothing below elbow” should be applied – that is watches, jewelry should be taken off. The “5 moments of hand hygiene” should be applied. Diagnostic medical gloves should be donned only after cleaning and/or disinfection of hands, directly before patient contact.

PLEASE BE ON TIME for classes. No unexplainable absences are allowed.

In case of absence during classes, it is obligatory to contact the head of the department or person responsible for subject
Telephone +48 22 502 17 21
Access www.anestezjologia1.wum.edu.pl for lecture presentations.

Course Assessment

In the event of an **excused absence from an assessment**, the student is entitled to take the assessment on the next date scheduled by the teaching unit.

An unexcused absence constitutes grounds for recording a failure to complete the course on that assessment date. If the student fails to complete the course by the final scheduled assessment date in a given academic year, the student does not receive credit for the course.

If the student receives a failing grade in a course completed with a pass/fail assessment, the student is entitled to **two resit attempts**.

ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students’
Survey of Evaluation of Classes and Academic Teachers

The property rights, including copyrights, to the syllabus are vested in the Medical University of Warsaw. The syllabus can be used for purposes related to education during studies at the Medical University of Warsaw. The use of the syllabus for other purposes requires the consent of the Medical University of Warsaw.