



## Anesthesiology and pain therapy

<b>1. IMPRINT</b>	
<b>Academic Year</b>	2022/2023
<b>Department</b>	Faculty of Dental Medicine
<b>Field of study</b>	English Dentistry Division
<b>Main scientific discipline</b> <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical sciences
<b>Study Profile</b> <i>(general academic / practical)</i>	General academic
<b>Level of studies</b> <i>(1<sup>st</sup> level / 2<sup>nd</sup> level / uniform MSc)</i>	Uniform MSc
<b>Form of studies</b>	Full time program
<b>Type of module / course</b> <i>(obligatory / non-compulsory)</i>	Obligatory
<b>Form of verification of learning outcomes</b> <i>(exam / completion)</i>	Completion
<b>Educational Unit / Educational Units</b> <i>(and address / addresses of unit / units)</i>	1st Department of Anesthesiology and Intensive Care SKDJ UCK WUM, ul. Lindleya 4, 02-005 Warszawa. tel: (22) 502 1721 klinanest1@wum.edu.pl www.anestezjologia1.wum.edu.pl

<b>Head of Educational Unit / Heads of Educational Units</b>	Prof. Janusz Trzebicki, PhD MD
<b>Course coordinator</b> (title, First Name, Last Name, contact)	Prof. Janusz Trzebicki, PhD MD; <a href="mailto:janusz.trzebicki@wum.edu.pl">janusz.trzebicki@wum.edu.pl</a>
<b>Person responsible for syllabus</b> (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Marek Janiak, MD; <a href="mailto:marek.janiak@wum.edu.pl">marek.janiak@wum.edu.pl</a>
<b>Teachers</b>	Prof. Janusz Trzebicki, PhD, MD; <a href="mailto:janusz.trzebicki@wum.edu.pl">janusz.trzebicki@wum.edu.pl</a> Beata Błaszczuk, PhD MD; <a href="mailto:beata.blaszczuk@wum.edu.pl">beata.blaszczuk@wum.edu.pl</a> Lidia Jureczko, PhD MD; <a href="mailto:lidia.jureczko@wum.edu.pl">lidia.jureczko@wum.edu.pl</a> Marcin Kołacz, PhD MD; <a href="mailto:marcin.kolacz@wum.edu.pl">marcin.kolacz@wum.edu.pl</a> Rafał Kowalczyk, PhD MD; <a href="mailto:rafal.kowalczyk@wum.edu.pl">rafal.kowalczyk@wum.edu.pl</a> Jan Pluta, PhD MD; <a href="mailto:jan.pluta@wum.edu.pl">jan.pluta@wum.edu.pl</a> Paweł Zatorski, PhD MD; <a href="mailto:pawel.zatorski@wum.edu.pl">pawel.zatorski@wum.edu.pl</a> Piotr Mieszczanski, MD; <a href="mailto:piotr.mieszczanski@wum.edu.pl">piotr.mieszczanski@wum.edu.pl</a> Marek Janiak, MD; <a href="mailto:marek.janiak@wum.edu.pl">marek.janiak@wum.edu.pl</a>

## 2. BASIC INFORMATION

<b>Year and semester of studies</b>	III year, VI semester	<b>Number of ECTS credits</b>	1
<b>FORMS OF CLASSES</b>		<b>Number of hours</b>	<b>ECTS credits calculation</b>
<b>Contacting hours with academic teacher</b>			
Lecture (L)		10	0.4
Seminar (S)			
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		10	0.4
Work placement (WP)			
<b>Unassisted student's work</b>			
Preparation for classes and completions		5	0.2

## 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 the methods of analgesia, alleviation of stress and anxiety.
O3	Understands the basic knowledge on diagnosis and management of facial and oral pain syndromes.

**4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING** (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

<b>Code and number of effect of learning in accordance with standards of learning</b> <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	<b>Effects in time</b>
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**Knowledge – Graduate\* knows and understands:**

F.W15.	therapeutic methods for reducing and relieving pain and reducing anxiety and stress.
F.W16.	principles of anesthesia in dental procedures and basic pharmacological agents.

**Skills– Graduate\* is able to:**

F.U16.	use appropriate medications during and after dental surgery to relieve pain and anxiety.
C.W21.	apply principles of preventing and combating pain and anxiety, as well as the pharmacology of medications used in life-threatening situations.
E.U11.	diagnose headaches and face pains as well as neurological diseases of adults and children that pose problems in dental practice.
E.U20.	perform basic medical procedures and treatments: body temperature measurement, pulse count, non-invasive blood pressure check, oxygen therapy, manual and mechanical ventilation, oro- and nasopharyngeal airway device placement, preparation of surgical field, hygienic and surgical hand wash, intravenous, intramuscular and subcutaneous injection, venous blood sampling, nasal, pharyngeal and skin swab taking, simple strip tests, blood glucose check.
F.U6.	interpret the results of additional tests and consultations.
F.U9.	manage general and local complications during and after procedures in dentistry.

\* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

**5. ADDITIONAL EFFECTS OF LEARNING** (non-compulsory)

<b>Number of effect of learning</b>	<b>Effects of learning i time</b>
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<b>Knowledge – Graduate knows and understands:</b>	
K1	-
<b>Skills– Graduate is able to:</b>	
S1	-
<b>Social Competencies – Graduate is ready for:</b>	
SC1	Observing and recognizing own limitations and defining educational needs as well as knowledge gaps.

## 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 lecture aims to provide the basic physiology and pathophysiology of acute and chronic pain as well as the basic methods of pain management.	E.U11., F.W16., C.W21.
	W2. Lecture 2: Principles of regional anesthesia. Local Anesthetic Systemic Toxicity (LAST). The lecture aims to provide the basic pharmacology of local anesthetics, dosage of local anesthetics, signs and symptoms of local anesthetic overdose.	F.U9., F.U16., E.U20., F.W16.
	W3. Lecture 3: Preparation of patient for anesthesia. The lecture aims to provide knowledge on how to prepare a patient for surgery and anesthesia.	F.W16., F.U6.
	W4. Lecture 4: Foundations of general anesthesia and its pharmacology. The lecture aims to introduce principles of general anesthesia and pharmacology of drugs used for general anesthesia.	F.W15., F.W16., F.U9., F.U16.
	W5. Lecture 5: Anesthesiology for dentistry. The aim of the lecture is to present basic principles of preparing patients for anesthesia, ways of assessing risks related to anesthesia, basics of premedication and sedation, types and ways of providing sedation, ways of maintaining a patent airway, oxygen therapy, monitoring during sedation, special circumstances of anesthesia in dentistry and maxillofacial surgery.	E.U20., F.W15., F.W16., F.U6., F.U9.
	W6. Lecture 6: Chronic pain in dentistry. The lecture aims to introduce basic pain syndromes in dentistry including facial pains; ways of recognizing and treating, basics of acute pain management, postoperative pain, persistent surgical pain, nociceptive, neuropathic and chronic pain in dentistry.	E.U11., F.U6.
Practical classes	Practice in operating theatres, anesthesia rooms, postanesthesia care units and chronic pain clinics – part I	E.U20., F.U6., C.W21., F.U16., F.W15., F.W16., SC1.
	Practice in operating theatres, anesthesia rooms, postanesthesia care units and chronic pain clinics – part II	E.U20., F.U6., C.W21., F.U16., F.W15., F.W16., SC1.

## 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

Basic Life Support. European Resuscitation guidelines 2021.

## 8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.K1, G.S1, K1	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	e.g. <i>threshold number of points</i>
F.W15., F.W16., C.W21., E.U11., E.U20., F.U6., F.U9., F.U16.	<i>Form of credit: written test based on information presented in seminars and practical classes Obligatory attendance at classes</i>	<i>To receive a credit students must obligatorily attend classes and obtain credit (written test)</i>  <b>Marking system for test MCQs:</b> <b>2.0 Fail – no presence during classes and lectures or &lt;8 points on test</b> <b>3.0 = 8-9 correct answers in test</b> <b>3.5 = 10 correct answers</b> <b>4.0 = 11-12 correct answers</b> <b>4.5 = 13 correct answers</b> <b>5.0 = 14-15 correct answers.</b>

## 9. ADDITIONAL INFORMATION *(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)*

**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**

[www.anestezjologia1.wum.edu.pl](http://www.anestezjologia1.wum.edu.pl)

**Person responsible for classes: Marek Janiak, [marek.janiak@wum.edu.pl](mailto:marek.janiak@wum.edu.pl)**

During classes in the department and when in contact with patients, medical dresscode with short sleeves is desired. Long hair should be secured. Theatre shoe wear is needed during practical classes. "Nothing below elbow" rule applies i.e. one should not wear watches, jewelry on upper limbs. Hand hygiene is obligatory.

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