



Anesthesiology and pain therapy

1. IMPRINT

Academic Year	2023/2024
Department	Faculty of Dental Medicine
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

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2. BASIC INFORMATION			
Year and semester of studies	III year, VI semester	Number of ECTS credits	1.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		10	0.4
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		10	0.4
Work placement (WP)			
Unassisted student's work			
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 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
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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.	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: temperature measurement, pulse measurement, non-invasive blood pressure measurement, oxygen treatment, assisted and alternative ventilation, insertion of an oropharyngeal tube, preparation of the operating field, hygienic and surgical disinfection of hands, intravenous, intramuscular and subcutaneous injections, peripheral blood sampling, nasal, pharyngeal and dermal swab taking, simple strip tests, glucose blood check
F.U6.	interpret the results of additional tests and consultations
F.U9.	proceed in the event of general and local complications during and after dental procedures

5. ADDITIONAL EFFECTS OF LEARNING

Number of effect of learning	Effects of learning i time
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Knowledge – Graduate knows and understands:

K1	-
Skills– Graduate is able to:	
S1	-
Social Competencies – Graduate is ready for:	
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 aim of the lecture is to teach basic physiology and pathophysiology of acute and chronic pain as well as basic therapies of pain	E.U11., F.W16., C.W21., SC1.
	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)	F.U9., F.U16., E.U20., F.W16., SC1.
	W3. Lecture 3. Preparation of patient for anesthesia. The aim of the lecture is to introduce principles of preparing a patient for anesthesia.	F.W16., F.U6., SC1.
	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.W15., F.W16., F.U9., F.U16., SC1.
	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.U20., F.W15., F.W16., F.U6., F.U9., SC1.
	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.U11., F.U6., SC1.
Practical classes	Practical classes in operating theatres, anesthetic block rooms, postanesthesia care units – basic principles of anesthesiology and pain therapy – PART 1	E.U20., F.U6., C.W21., F.U16., F.W15., F.W16., SC1.
	Practical classes in operating theatres, anesthetic block rooms, postanesthesia care units – basic principles of anesthesiology and pain therapy – PART 2	E.U20., F.U6., C.W21., F.U16., F.W15., F.W16., SC1.

7. LITERATURE

Obligatory
<ol style="list-style-type: none"> 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
F.W15., F.W16., F.U16., C.W21., E.U11., E.U20., F.U6., F.U9., SC1.	<p>Theoretical knowledge: confirmed by presence during lectures and a positive result of the final test.</p> <p>Practical knowledge: confirmation by teacher during practical classes of skills obtained by student.</p>	<ol style="list-style-type: none"> 1. Active participation in all practical classes. 2. Presence during all lectures 3. Final test – 15 single best answer questions. <p>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</p>

9. ADDITIONAL INFORMATION
<p>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.</p> <p>PLEASE BE ON TIME for classes. No unexplainable absences are allowed.</p> <p>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.</p> <p>In case of a failed test with less than 8 correct answers, in accordance with Regulations, a second attempt at the test will be allowed. If the second test is not passed, on receiving the Dean’s approval, a student will be permitted to attempt a board examination.</p>

<p>ATTENTION</p> <p>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</p>

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