

Course title

Scientific approach to medical emergencies in dental medicine

Department

Chair of Anesthesiology and Reanimatology

Address

Clinical Hospital Dubrava, Clinical Department of Anesthesiology, Reanimatology and Intensive Care Medicine, G. Suska Avenue, Zagreb

Total ECTS points

Course leader

Assist Prof Jasminka Peršec, MD PhD

Course associates

Teaching plan

	No. classes
Lecture	5
Seminar	5
Practical	5
Total	15

1 class = 45 minutes

Course description

The aim of this postgraduate course is to familiarize students with pathogenesis and clinical course of medical emergencies in dental medicine, early recognition of signs and symptoms of conditions which require immediate medical attention, diagnostic methods in assessing severity and cause of conditions and application of treatment procedures using existing scientific knowledge as a basis for clinical treatment. Special emphasis will be placed on the recognition of open scientific issues in diagnosis and treatment, and planning of experimental, clinical and epidemiological research of medical emergencies in dental medicine.

Learning outcomes

1. to describe the pathogenesis and clinical course of medical emergencies in dental medicine
2. to apply emergency treatment procedures
3. to reconsider existing scientific knowledge as a basis for clinical treatment
4. to create experimental, clinical and epidemiological research of medical emergencies in dental medicine

Course content

Lecture

	Lecture topics	Number of classes/hours
1.	Pathogenesis and clinical course of medical emergencies in dental medicine	1
2.	Application of emergency treatment procedures	1
3.	Existing scientific knowledge as a basis for clinical treatment of most common medical emergencies in dental medicine	1
4.	Open scientific issues in diagnosing and treating medical emergencies in dental medicine	1
5.	Experimental, clinical and epidemiological researches of medical emergencies in dental medicine	1
6.		-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

1 sat = 45 minuta

Seminari

	Seminar topics	Number of classes/hours
1.	Interaction analysis of most commonly used drugs in dental medicine with chronic cardiac therapy – pharmacokinetics and pharmacodynamics	1
2.	Identification of coagulation disorders, chronic anticoagulant and antiplatelet therapy in dental procedures	1
3.	Complication assessment of obstructive sleep apnea in dental procedures	1
4.	Periprocedural respiratory arrest during and after dental procedures	1
5.	Electrolyte and endocrine disorders in dental practice	1
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

1 sat = 45 minuta

Vježbe

	practicals topics	Number of classes/hours
1.	Procedures of basic life support and airway management	1

2.	Procedures of advanced life support and venous access	1
3.	Analysis of cardiac rhythm disturbances, synchronized cardioversion and defibrillation	1
4.	Application of advanced procedures for airway management	1
5.	Application of noninvasive ventilation support	1
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

1 class = 45 minutes

Literature

1. ISBN 978-953-176-899-3; Anesteziologija u dentalnoj medicini; Peršec J i sur.; Medicinska naklada 2019.
2. ISBN 978-953-176-583-1; Klinička Anesteziologija, 2. izdanje; Jukić, Husedžinović, Majerić Kogler i sur.; Medicinska Naklada 2012.
3. Monsieurs KG, Nolan JP, Bossaert LL, et al. ERC Guidelines 2015 Writing Group. European Resuscitation Council Guidelines for Resuscitation 2015. Resuscitation. 2015;95:1-80. doi:10.1016/j.resuscitation.2015.07.038
4. Ingrasciotta Y, Crisafulli S, Pizzimenti V, et al. Pharmacokinetics of new oral anticoagulants: implications for use in routine care. Expert Opin Drug Metab Toxicol. 2018;14(10):1057-1069. doi: 10.1080/17425255.2018.1530213
5. Dawoud BE, Roberts A, Yates JM. Drug interactions in general dental practice--considerations for the dental practitioner. Br Dent J. 2014;216(1):15-23. doi: 10.1038/sj.bdj.2013.1237
6. Becker DE. Cardiovascular drugs: implications for dental practice part 1 - cardiotonics, diuretics, and vasodilators. Anesth Prog. 2007;54(4):178-85; quiz 186-7.
7. Becker DE. Cardiovascular drugs: implications for dental practice. Part 2--antihyperlipidemics and antithrombotics. Anesth Prog. 2008;55(2):49-55; quiz 56-7.

CV (*curriculum vitae*) and bibliography of course leader

Jasminka Peršec was born on 11th February 1973. in Zagreb. At 1991. enrolled at the School of Medicine in Zagreb, where she graduated 1997. among the 10% of the most successful students with a grade point average of 4.82 per study. After obtaining specialization in Anesthesiology, Resuscitation

and Intensive Care at the Clinical Hospital Dubrava in Zagreb, defended her master's thesis 2005. entitled "The effect of preemptive analgesia with clonidine on acute postoperative pain level". At 2008. defended her doctoral dissertation entitled "Comparison of the central use of clonidine and levobupivacaine with respect to postoperative pain level and systemic inflammatory response". At 04/2010. elected to research associate, in the scientific field of Biomedicine and Health, field of Clinical Medical Science. At 2010. elected to associate assistant and 2013. elected to the associate position of senior assistant at the Chair of Anesthesiology and Resuscitation at the School of Dental Medicine, University of Zagreb. At 04/2013. elected to senior research associate, in the scientific field of Biomedicine and Health, field of Clinical Medical Science. At 2013. elected to title primarius. At 01/2017. elected to assistant professor at School of Dental Medicine, University of Zagreb.

From 01/2018. is a member of the Scientific and Teaching Council of Clinical Hospital Dubrava, Zagreb.

From 02/2018. head of the Clinical Department for Anesthesiology, Resuscitation and Intensive Care Medicine of Clinical Hospital Dubrava, Zagreb. At 07/2018. elected to scientific advisor, in the scientific field of Biomedicine and Health, field of Clinical Medical Science. From 09/2018. is a president of the Croatian Society for Intensive Care Medicine of the Croatian Medical Association. From 2019. appointed in the Croatian Ministry of Health as the National Head of the Specialist Training Program in Anesthesiology, Resuscitation and Intensive Care Medicine.

She is Course leader of the Anesthesiology and Resuscitation in Undergraduate Teaching on Croatian and English language, and Course leader of the Scientific Approach to Medical Emergencies in Dental Medicine at the Postgraduate Doctoral Study at the School of Dental Medicine, University of Zagreb.

Bibliography is available at:

<https://www.bib.irb.hr/pretraga?operators=and|Per%C5%A1ec%2C+Jasminka|text|profile>