



UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izbrane vsebine in novosti v urgentni medicini
Course title:	Selected topics and novelties in emergency medicine

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Splošna medicina General medicine - EMŠP		5	10

Vrsta predmeta / Course type

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
5	40				45	3

Nosilec predmeta / Lecturer:

Izr. prof. dr. Dušan Mekiš

Jeziki / Predavanja / Lectures:

Slovensko

Languages: Vaje / Tutorial:

Slovensko

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Prerequisites:

Vsebina:

Content (Syllabus outline):

1. Temeljni in nadaljevalni postopki oživljanja pri odrasli osebi
2. Postopki oživljanja v posebnih pogojih
3. Hipotenzija in šok
4. Oskrba dihalne poti
5. Poškodba glave
6. Usmerjeni ultrazvok (UZ) v urgentni medicini (osnove, tehnične podrobnosti)
7. UZ dihalne poti
8. UZ pljuč
9. UZ srca
10. UZ pregled poškodovanca (E-FAST)
11. UZ pregled abdominalne aorte
12. UZ globokih ven spodnjih okončin
13. UZ sečil
14. UZ pregled pri šokiranem bolniku (RUSH pregled)
15. EKG preiskava (osnove, tehnične podrobnosti)
16. EKG zapis – analiza
17. EKG : motnje ritma
18. EKG : ishemične bolezni srca (AKS in ekvivalenti)
19. EKG : druge bolezni srca
20. EKG : druga nujna stanja

1. Basic and advanced life support in adults
2. Resuscitation guidelines in special circumstances
3. Hypotensia and shock
4. Airway management
5. Head Injury
6. Point of care ultrasound (POCUS) in emergency medicine (basics, knobology and other technical details)
7. Ultrasound (US) of airway
8. Lung US
9. Focus cardiac ultrasound (FOCUS)
10. US examination in trauma patients (E-FAST)
11. US examination of abdominal aorta
12. US examination of deep venous system in lower limb
13. US examination of urinary tract
14. US examination in shock (RUSH examination)
15. ECG (basics, technical details)
16. ECG analysis
17. ECG : arrhythmia
18. ECG : ischemic cardiac disease (ACS and equivalents)
19. ECG : other cardiac diseases
20. ECG : other emergency conditions

Temeljni literatura in viri / Readings:**BASIC TEXTBOOKS (temeljna literatura):**

1. Smernice Evropskega reanimacijskega sveta za oživljanje 2021 : slovenska izdaja / [avtorji angleškega izvirnika Gavin D. Perkins ... [et al.] ; avtorji slovenske izdaje Špela Baznik ... [et al.] ; uredniki slovenske izdaje Primož Gradišek, Mojca Grošelj Grenc, Alenka Strdin Košir], COBISS.SI-ID 69375235.
2. Marx JA, Hockberger RS, Walls RM. Rosen's Emergency Medicine: concepts and clinical practice, 8th ed., Philadelphia, Mosby-Elsevier, 2014.
3. Noble VE, Nelson B. Manual of emergency and critical care ultrasound. 2nd ed. Cambridge: Cambridge University Press 2011.
4. Štajer D, Cvijić M, Fister M, Radšel P, Knafelj R. EKG pri akutnih stanjih. Medicinska fakulteta v Ljubljani 2017.
5. Tintinalli JE, Kelen GD, Stapczynski JS. Emergency Medicine –A comprehensive study guide –9th edition, McGraw –Hill, New York, 2019.

Dopolnilna literatura:

6. Monsieurs KG, Nolan JP, Bossaert LL et al. European resuscitation council guidelines for resuscitation 2015. Section 1. Executive summary. Resuscitation 2015 (95):1-80.
7. Perkins GD, Handley AJ, Koster RW et al. European resuscitation council guidelines for resuscitation 2015. Section 2. Adult basic life support and automated external defibrillation. Resuscitation 2015 (95): 81-99.
8. ERC Guidelines 2021 (<https://cprguidelines.eu/>)
9. Van de Voorde P, Turner NM, Djakow J, de Lucas N, Martinez-Mejias A, Biarent D, Bingham R, Brissaud O, Hoffmann F, Johannesdottir GB, Lauritsen T, Maconochie I. European Resuscitation Council Guidelines 2021: Paediatric Life Support. Resuscitation. 2021 Apr;161:327-387.
10. ZDRAVKOVIĆ, Marko (urednik), GRADIŠEK, Primož (urednik), MOLLER PETRUN, Andreja (urednik). *Šola anesteziologije, reanimatologije in perioperativne intenzivne medicine. Modul 3, Temeljni in dodatni postopki oživljanja otrok in odraslih : učbenik*. 3., dopolnjena izd. Maribor: UKC, Oddelek za anesteziologijo, intenzivno terapijo in terapijo bolečin: Univerza, Medicinska fakulteta, Katedra za anesteziologijo in reanimatologijo; Ljubljana: UKC, Klinični oddelek za anesteziologijo in intenzivno medicino: Slovensko zdravniško društvo, Slovensko združenje za anesteziologijo in intenzivno medicino, 2024. 1 spletni vir (1 datoteka PDF (IV, 110 str.)), ilustr. ISBN 978-961-7196-20-7. <https://www.ukc-mb.si/strokovna-srecanja/zborniki>. [COBISS.SI-ID [179885571](#)]

ADVANCED TEXTBOOKS (nadaljevalna, dopolnilna literatura):

11. Grmec Š, Kupnik D (urednika). Nujna stanja, Katedra za prvo pomoč in Katedra za družinsko medicino MF Maribor, Zbirka Acuta, 2008.
12. Ma JO, Mateer JR, Reardon RF, Joing SA. Ma and Mateer's Emergency Ultrasound. 3th ed. McGraw Hill 2014.
13. De Backer D, Cholley BP, Slama M, Vieillard Baron A, Vignon P. Hemodynamic monitoring using echocardiography in the critically ill. Springer Verlag 2011.
14. Lichtenstein DA. General ultrasound in the critically ill. Springer Verlag 2007.
15. John R Hampton. ECG made easy. Churchill Livingstone 1998.
16. John R Hampton. ECG in practice. Churchill Livingstone 1997.
17. Life in the Fast Lane [Internetni dostop]; <https://litfl.com/ecg-library/>
18. STRNAD, Matej, MACUH, Bojan. Prva pomoč : skripta za program Fizioterapija, (Zbirka Strokovni priročniki). 1. natis. Maribor: AMEU - ECM, Alma Mater Press, 2018
19. BOROVIK LESJAK, Vesna, STRNAD, Matej. Temeljni postopki oživljanja odraslih z uporabo avtomatskega zunanega defibrilatorja : priročnik za učence, dijake in študente. Slovenska Bistrica: Razvojno informacijski center, 2019.
20. STRNAD, Matej, BOROVIK LESJAK, Vesna, MOHOR, Mitja, VENCELI, Barbara, PELCL, Tine, RUKAVINA, Taja, PRESTOR, Jože. Priročnik za prve posredovalce. Nova izd. Ljubljana: Slovensko združenje za urgentno medicino, 2016.

Cilji in kompetence:

- študent pridobi specialna znanja s področja urgentne medicine
- prepozna življenjsko ogrožajoča stanja in zna pravilno ukrepati;
- študent pridobi specialna znanja iz osnov usmerjenega ultrazvoka v urgentni medicini
- s pomočjo ultrazvočnega pregleda prepozna življenje ogrožajoča stanja pri nenadno obolem ali poškodovanem bolniku
- študent pridobi osnovna znanja iz EKG pregleda
- s pomočjo EKG zapisa je študent sposoben prepoznati ishemične bolezni srca, aritmije in druge spremembe v EKG zapisu pri ostalih nujnih stanjih

Objectives and competences:

The objectives of the study »Selective topics and novelties in emergency medicine« are:

- to acquire knowledge in emergency medicine to recognize critical condition of patients and appropriate care and intervention
- fully acquainted with resuscitative problems and techniques
- to acquire point-of-care ultrasound basics
- to recognize life threatening conditions in undifferentiated critically ill or injured patients
- to acquire basics in ECG
- with ECG investigation to diagnose ischemic cardiac conditions, arrhythmias and additional ECG changes in other emergency medical conditions

Predvideni študijski rezultati:**Znanje in razumevanje:**

- osnovnih patofizioloških dogajanj pri nujnih stanjih s pravilnim ukrepanjem ter obvladanje in znanje na področju ACLS..
- osvojitve novih znanj s področja ultrazvoka v urgentni medicini ter njihovo razumevanje
- ključne veščine ultrazvoka v urgentni medicini
- osvojitve novih znanj s področja EKG preiskave v urgentni medicini.

Prenesljive/ključne spretnosti in drugi atributi: stiski prsnega koša, intravenozna pot in alternative, defibrilacija, endotrachealna intubacija in alternativna oskrba dihalne poti, sedacija, analgezija in RSI, UZ preiskava in njena interpretacija, interpretacija EKG v urgentni medicini.

Intended learning outcomes:**Knowledge and Understanding:**

- basics of patho physiological processes in emergency conditions with appropriate medical care and interventions and appropriate preparing in ACLS.
- acquired new knowledge in the field of point of care ultrasound in emergency medicine
- key skills in emergency medicine ultrasound
- acquired new knowledge in the field of ECG investigation in emergency medicine,

Transferable/Key Skills and other attributes:

Chest compressions, iv access and alternative methods, defibrillation, endotracheal intubation and alternative methods of airway management, mechanical ventilation, sedation and analgesia and RSI, US examination and interpretation of its findings, interpretation of ECG in emergency medicine.

Metode poučevanja in učenja:

Predavanja, praktične demonstracije (vaje) in priprava seminarjev

Learning and teaching methods:

Lectures, lab work, seminars

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

Način (pisni izpit, ustno izpraševanje, naloge, projekt) Pisni test Seminarji		Type (examination, oral, coursework, project): Written exam Seminars
Pisni izpit je sestavljen iz 50 MCQ vprašanj v računalniški obliki, za katere je na voljo 45 minut. Ocena iz pisnega izpita se določi po naslednjem kriteriju: 45-50 točk: ocena 10; 40-44 točk: ocena 9; 35-39 točk: ocena 8; 30-34 točk: ocena 7; 26-29 točk: ocena 6; 25 točk ali	50%	Written exam consists of 50 MCQ in computerized format and is 45 minutes long. Written exam is graded as following: 45-50 points: grade 10; 40-44 points: grade 9; 35-39 points: grade 8; 30-34 points: grade 7; 26-29 points: grade 6; 25 points or less: failed.

manj: izpita ni opravil. Končna ocena se izračuna po formuli: $(0,5 \times \text{MCQ}) + (0,5 \times \text{seminarji})$, rezultat se zaokroži na eno decimalno mesto. V primeru, da ima končni rezultat decimalno končnico 0,5 ali več se ocena zaokroži navzgor, sicer pa navzdol. V primeru, da študent na pisnem izpitu doseže manj ali enako kot 25 točk, izpita iz predmeta ni opravil. V primeru, da je na seminarju ocenjen z manj kot 6, se študent ne more udeležiti pisnega izpita. ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV: Obvezna prisotnost na seminarjih. Pred vsakim seminarjem študent samostojno predela snov iz seminarja na Moodle ter opravi pre-test in post-test na Moodle. Pre-test in post-test sta sestavljena vsak iz petih MCQ vprašanj. Iz opravljenih testov na Moodle prejme študent oceno za posamezen seminar (npr. 9 pravilno rešenih vprašanj 9, za 8 pravilno rešenih vprašanj 8, itn.). Skupna ocena iz seminarja je povprečje ocen iz posameznih seminarjev in predstavlja polovico (50 %) skupne ocene predmeta. POGOJI ZA PRISTOP K POSAMEZNEMU PREVERJANJU ZNANJA: Opravljeni seminarji in ocena iz seminarjev	50%	Final grade is calculated as follows: $(0.5 \times \text{MCQ}) + (0.5 \times \text{seminars})$. The result is rounded to one decimal place. Decimal results of the calculation will be rounded to the nearest whole number (0.5 or more is rounded up, less than 0.5 is rounded down). If a student gets 25 or less points at the written exam, he/she has failed the course. If a student does not get at least a grade 6 at the seminars, he/she cannot take the written exam. ACADEMIC OBLIGATIONS OF STUDENTS: Obligatory attendance at coursework. The student is obligated to study the materials uploaded on the Moodle before he enters the coursework and to fulfill the pre-test and post-test on Moodle. Both the pre-test and post-test are composed from 5 MCQ. The success of the MCQ pre- and post-test are transformed into the grade for each coursework (for example: 9 right answered MCQ are transformed into grade 9, 8 right answered MCQ are transformed into grade 8, and so on.). The grade from the seminars is an average of grades from each seminar and represents half of the final grade. REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING: Completed coursework assignments and a mark of seminars.
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Reference nosilca / Lecturer's references:

1. MEKIŠ, Jana, STROJAN, Primož, MEKIŠ, Dušan, HOČEVAR-BOLTEŽAR, Irena. Change in voice quality after radiotherapy for early glottic cancer. *Cancers*. 2022, vol. 14, iss. 12, str. 1-12. ISSN 2072-6694. <https://www.mdpi.com/2072-6694/14/12/2993>, DOI: [10.3390/cancers14122993](https://doi.org/10.3390/cancers14122993), [COBISS.SI-ID [115488259](#)], [JCR, SNIP, WoS do 4. 2. 2024: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.25, Scopus do 30. 1. 2023: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.25]
2. PROSEN, Gregor, STRNAD, Matej, DONIGER, Stephanie J., MARKOTA, Andrej, STOŽER, Andraž, BOROVIK LESJAK, Vesna, MEKIŠ, Dušan. Cerebral tissue oximetry levels during prehospital management of cardiac arrest : a prospective observational study. *Resuscitation*. [Online ed.]. Aug. 2018, vol. 129, str. 141-145, ilustr. ISSN 1873-1570. <https://www.sciencedirect.com/science/article/pii/S0300957218302259?via%3Dihub>, DOI: [10.1016/j.resuscitation.2018.05.014](https://doi.org/10.1016/j.resuscitation.2018.05.014), [COBISS.SI-ID [6385727](#)], [JCR, SNIP, WoS do 8. 11. 2023: št. citatov (TC): 32, čistih citatov (CI): 32, čistih citatov na avtorja (CIAu): 4.57, Scopus do 26. 10. 2023: št. citatov (TC): 29, čistih citatov (CI): 29, čistih citatov na avtorja (CIAu): 4.14]
3. VUJANOVIĆ, Vitka, BOROVIK LESJAK, Vesna, MEKIŠ, Dušan, STRNAD, Matej. Dynamics of capillary lactate levels in patients with out-of-hospital cardiac arrest. *Medicina*. 2023, vol. 59, issue 11, [article no.] 1989, str. [1]-11, ilustr. ISSN 1648-9144. <https://doi.org/10.3390/medicina59111989>, <https://www.mdpi.com/1648-9144/59/11/1989>, DOI: [10.3390/medicina59111989](https://doi.org/10.3390/medicina59111989), [COBISS.SI-ID [171801859](#)], [JCR, SNIP, WoS, Scopus]
4. KRIŽMARIĆ, Miljenko, MAVER, Uroš, ZDRAVKOVIĆ, Marko, MEKIŠ, Dušan. Effects of the reservoir bag disconnection on inspired gases during general anesthesia : a simulator-based study. *BMC anesthesiology*.

2021, vol. 21, str. 1-9, ilustr. ISSN 1471-2253.

<https://bmcanesthesiol.biomedcentral.com/track/pdf/10.1186/s12871-021-01256-2.pdf>, DOI: [10.1186/s12871-021-01256-2](https://doi.org/10.1186/s12871-021-01256-2). [COBISS.SI-ID [50343171](#)], [JCR, SNIP, WoS do 11. 7. 2022: št. citatov (TC): 1, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0.00, Scopus do 27. 7. 2022: št. citatov (TC): 1, čistih citatov na avtorja (CIAu): 0.00]

5. KARNJUŠ, Igor, MEKIŠ, Dušan, KRIŽMARIĆ, Miljenko. Uncontrolled delivery of liquid volatile anaesthetic when using the anaesthetic conserving device. *Journal of clinical monitoring and computing*. 2018, vol. 32, iss. 4, str. 629-638, ilustr. ISSN 1573-2614. <https://link.springer.com/article/10.1007/s10877-017-0022-2>, DOI: [10.1007/s10877-017-0022-2](https://doi.org/10.1007/s10877-017-0022-2). [COBISS.SI-ID [1539365828](#)], [JCR, SNIP, WoS do 13. 4. 2019: št. citatov (TC): 2, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0.67, Scopus do 28. 2. 2019: št. citatov (TC): 2, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0.67]

6. BLAJIĆ, Iva, HODZOVIC, Iljaz, LUČOVNIK, Miha, MEKIŠ, Dušan, NOVAK-JANKOVIČ, Vesna, STOPAR PINTARIČ, Tatjana. A randomised comparison of C-MAC(TM) and King Vision videolaryngoscopes with direct laryngoscopy in 180 obstetric patients. *International journal of obstetric anesthesia*. Aug. 2019, vol. 39, str. 35-41, ilustr. ISSN 0959-289X.

<https://www.sciencedirect.com/science/article/pii/S0959289X1830373X?via%3Dihub>, DOI: [10.1016/j.ijoa.2018.12.008](https://doi.org/10.1016/j.ijoa.2018.12.008). [COBISS.SI-ID [34119641](#)], [JCR, SNIP, WoS do 20. 12. 2023: št. citatov (TC): 17, čistih citatov (CI): 15, čistih citatov na avtorja (CIAu): 2.50, Scopus do 11. 12. 2023: št. citatov (TC): 18, čistih citatov (CI): 16, čistih citatov na avtorja (CIAu): 2.67]

7. WAGNER-KOVAČEC, Jožica, POVALEJ BRŽAN, Petra, MEKIŠ, Dušan. Efficacy of continuous in-wound infusion of levobupivacaine and ketorolac for post-caesarean section analgesia : a prospective, randomised, double-blind, placebo-controlled trial. *BMC anesthesiology*. 2018, [vol.] 18, str. [1]-9. ISSN 1471-2253.

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8. PERŠA, Lidija, KAMENIK, Mirt, KRČEVSKI-ŠKVARČ, Nevenka, MEKIŠ, Dušan. Rocuronium versus succinylcholine for rapid sequence intubation in patients with bowel obstruction. *Signa vitae*. 2019, vol. 15, no. 2, str. 52-58. ISSN 1845-206X. <http://www.signavitae.com/?s=per%C5%A1a>, DOI: [10.22514/SV152.102019.8](https://doi.org/10.22514/SV152.102019.8). [COBISS.SI-ID [512934456](#)], [JCR, SNIP, WoS do 3. 6. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.25, Scopus do 15. 6. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.25]

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