

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	Izbrana poglavja iz urgentne medicine
<b>Course title:</b>	Chosen Chapters from Emergency Medicine

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Biomedicinska tehnologija/Biomedical Technology 3. stopnja/3rd Degree		2	3 ali 4

Vrsta predmeta / Course type	Izbirni/Elective
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Univerzitetna koda predmeta / University course code:	
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klin. vaje work	Druge oblike študija	Samost. Delo Individ. Work	ECTS
15	15	15			135	6

Nosilec predmeta / Lecturer:	Izr. prof. dr. Matej Strnad
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Jeziki / Languages:	Predavanja / Lectures: Slovenščina / Slovene; Angleščina / English
	Vaje / Tutorial: -

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites:
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Kandidat mora doseči 300 ECTS na predhodnem študiju.	Graduate degree 300 ECTS
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<b>Vsebina:</b>  Vsebina študijskega predmeta »Izbrana poglavja iz urgentne medicine« zajema proučevanje novih metodologij za diagnostiko, spremljanje in zdravljenje najpogostejših patoloških stanj v urgentni medicini. Predmet zajema tudi proučevanje znanj in novih metodologij obposteljnega (»point-of-care«) ultrazvoka (UZ) za diagnostiko in spremljanje zdravljenja (»monitoring«) izbranih bolezenskih entitet s področja urgentne medicine. V okviru predmeta bodo slušatelji, poleg preučevanja tehnik, indikacij in omejitve ter interpretacij dobljenih rezultatov, preučevali tudi umeščenost obposteljne ultrazvočne diagnostike v proces obravnavne kritično obolelega pacienta (princip »z obposteljnim ultrazvokom« podprtga diagnostično-terapevtskega odločanja). Študij bo predstavljal povezavo med kliničnim delom, kliničnim znanstvenim raziskovanjem ter novimi spoznanji sodobnih diagnostičnih preiskav in zdravljenja. Poudarek bo predvsem na naslednjih področjih urgentne medicine: <ul style="list-style-type: none"> <li>• dispečerski sistem</li> <li>• oživljvanje (reanimacija)</li> <li>• srčno žilne bolezni</li> <li>• bolezni pljuč</li> <li>• bolezni centralnega živčnega sistema</li> <li>• akutni abdomen</li> <li>• poškodbe</li> </ul>	<b>Content (Syllabus outline):</b>  The contents of the study programme »Chosen chapters from emergency medicine« comprise the studying of new methodologies for diagnosis, evaluation and monitoring of treatment of most common disease entities in/from the field of emergency medicine. The students will study various ultrasound (US) technics, indications and limitations of point-of-care ultrasound, interpret point-of-care ultrasound findings as well as research the importance of point-of-care ultrasound in management of critically ill patients (principle of point-of-care ultrasound enhanced diagnostic processes and therapeutic decision-making). The study will represent a connection between clinical work, clinical scientific research and new knowledge acquired by modern diagnostic investigation and treatment. The stress will be above all on the following fields of emergency medicine: <ul style="list-style-type: none"> <li>• dispatch system</li> <li>• resuscitation</li> <li>• cardio vascular diseases</li> <li>• lung diseases</li> <li>• central nervous system diseases</li> <li>• acute abdomen</li> <li>• trauma</li> <li>• sepsis</li> </ul>
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| <ul style="list-style-type: none"> <li>• sepsa</li> <li>• UZ pri motnjah zavesti (transkranialni ultrazvok, ultravočno določanje intrakranialnega tlaka, ocena zeničnih reakcij),</li> <li>• UZ dihalne poti,</li> <li>• UZ pri dispnoičnem bolniku in bolniku s prsnim bolečino (ultrazvok stene prsnega koša, ultrazvok pljuč, usmerjena ehokardiografija, ultrazvok globokega venskega sistema),</li> <li>• UZ pri bolniku z bolečino v trebuhu (usmerjeni ultrazvok žolčnika, ledvic, črevesnih vijug in slepiča, prisotnost proste tekočine),</li> <li>• UZ pri nediferenciranem šokiranem bolniku (ultravočni protokol RUSH)</li> <li>• UZ pri kritično prizadetem poškodovancu (ultravočni protokoli FAST, E-FAST in FAST-ER).</li> </ul> | <ul style="list-style-type: none"> <li>• US in altered mental status and head trauma patients (transcranial ultrasound, evaluation of intracranial pressure with ultrasound, evaluation of pupil reactions),</li> <li>• US of airway,</li> <li>• US in patients with acute dyspnoea and chest pain (ultrasound of thoracic wall, lung ultrasound, focused echocardiography, deep venous ultrasound),</li> <li>• US in patients with acute abdominal pain (focused ultrasound of gallbladder, kidneys, intestine and appendix, free fluid in abdomen),</li> <li>• US in undifferentiated patients in shock (RUSH protocol)</li> <li>• US in patients with life threatening injuries (FAST, E-FAST, FAST-ER protocols).</li> </ul> |
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#### Temeljni literatura in viri / Readings:

- 1. Tintinalli JE, Kelen GD, Stapczynski JS. Emergency medicine – A comprehensive study guide – 7th ed. , McGraw-Hill, New York 2011.
- 2. Marx JA, Hockberger RS, Walls RM. Rosen's Emergency Medicine: concepts and clinical practice, 8th ed., Philadelphia, Mosby-Elsevier, 2014.
- 3. American college of surgeons. Advanced trauma life support. 9th ed. American College of Surgeons, Chicago, 2012.
- Strnad M. Urgentna medicina. 1 izd. , Univerza v Mariboru, Univerzitetna založba, Maribor 2022.

#### Nadaljevalna, dopolnilna literatura / Additional, complementary readings:

- Grmec Š, Čretnik A, Kupnik D. Oskrba poškodovancev v predbolnišničnem okolju. Univerza v Mariboru; Maribor, 2006.
- Grmec Š, Kupnik D (urednika). Nujna stanja, Katedra za prvo pomoč in Katedra za družinsko medicino MF Maribor, Zbirka Acuta, 2008.
- SMERNICE evropskega reanimacijskega sveta za oživljjanje 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]. – 1. izd. – Ljubljana : Slovensko združenje za urgentno medicino, 2021. Dostopna na: [https://www.szum.si/media/uploads/files/Smernice\\_2021.pdf](https://www.szum.si/media/uploads/files/Smernice_2021.pdf)
- Avsec M, urednik. Šola urgentne medicine 2023: zbornik predavanj: zbornik 5. letnik, 2. cikel. – 1. izd. – El. knjiga. – Ljubljana: Slovensko združenje za urgentno medicino 2023. Dostopno na: [https://www.szum.si/media/uploads/files/X\\_%20sola%20urgentne%20medicine.pdf](https://www.szum.si/media/uploads/files/X_%20sola%20urgentne%20medicine.pdf)
- Avsec M, urednik. Šola urgentne medicine 2022: zbornik predavanj: zbornik 4. letnik, 2. cikel. – 1. izd. – El. knjiga. – Ljubljana: Slovensko združenje za urgentno medicino 2023. Dostopno na: <https://www.szum.si/media/uploads/files/Zbornik-SUM-2022.pdf>
- Avsec M, urednik. Šola urgentne medicine 2021: zbornik predavanj: zbornik 3. letnik, 2. cikel. – 1. izd. – El. knjiga. – Ljubljana: Slovensko združenje za urgentno medicino 2021. Dostopno na: <https://www.szum.si/media/uploads/files/VIII-sola-urgentne%20medicine-2021-3-letnik-2-cikel-zbornik-predavanj.pdf.pdf> Prosen G, urednik. Zbornik VII. Šole urgence 2019: zbornik predavanj: zbornik 2. letnik, 2. cikel – 1. izd. – El. knjiga. – Ljubljana: Slovensko združenje za urgentno medicino 2019. Dostopno na: [http://www.szum.si/literatura.html \(Zbornik-SUM-2019.pdf\)](http://www.szum.si/literatura.html (Zbornik-SUM-2019.pdf))
- Prosen G, urednik. Zbornik VI. Šole urgence 2018: zbornik predavanj: zbornik 1. letnik, 2. cikel. – 1. izd. – El. knjiga. – Ljubljana: Slovensko združenje za urgentno medicino 2018. Dostopno na: [http://www.szum.si/literatura.html \(Zbornik-SUM-2018.pdf\)](http://www.szum.si/literatura.html (Zbornik-SUM-2018.pdf))
- Možina H, Prosen G, urednika. Kompendij pripravnosti za poklic zdravnik. – 1. izd. – El. knjiga. - Ljubljana:

**Cilji in kompetence:**

- Namen predmeta »Izbrana poglavja v urgentni medicini« je pridobiti širše znanje in razumevanje patofiziologije iz posameznih področij urgente medicine.,
- razumevanje in kritično vrednotenje obposteljne ultrazvočne diagnostike v procesu obravnave kritično obolelega;
- kritično vrednotenje ter možnost prenosa v klinično prakso novih obposteljnih ultrazvočnih aplikacij (transkranialni ultrazvok, ultrazvočno merjenje IKT, okularni ultrazvok, ultrazvok dihalnih poti, ultrazvočni protokoli za obravnavo nediferenciranih bolnikov);
- razumevanje tehnik, indikacij, omejitve in interpretacij dobljenih rezultatov obposteljne ultrazvočne preiskave.

Zato je cilj uvajanje novih ter izboljševanje obstoječih diagnostičnih ter terapevtskih postopkov ter njihov prenos v vsakdanjo klinično prakso.

**Objectives and competences:**

- The objective of the study »Chosen chapters from emergency medicine« is to acquire knowledge and comprehension of pathophysiology from specific fields of emergency medicine.
- comprehension and evaluation of point-of-care ultrasound diagnostics in management of critically ill patients;
- applicability evaluation and transfer of new point-of-care ultrasound applications into clinical praxis (transcranial ultrasound, evaluation of intracranial pressure with ultrasound, ocular ultrasound, airway ultrasound, ultrasound protocols for undifferentiated patients);
- comprehension of technics, indications, limitations and interpretations of point-of-care ultrasound findings.
- Therefore, the objective will be the introduction of new and improvement of contemporary diagnostic and therapeutic procedures and their transfer into everyday clinical practice.

**Predvideni študijski rezultati:**

**Intended learning outcomes:**

**Znanje in razumevanje:**

- Osvojitev novih znanj s posameznih področij urgente medicine in njihovo razumevanje, ki jih bo mogoče neposredno koristiti v procesu zdravljenja in spremljanja bolezni.
- Osvojitev novih znanj s področja ultrazvoka v urgentni medicini ter njihovo razumevanje, ki jih bo mogoče neposredno koristiti v procesu zdravljenja in spremljanja kritično obolelih.
- Ključne veščine ultrazvoka v urgentni medicini.

**Knowledge and understanding:**

- Acquired new knowledge from specific fields in emergency medicine, which can be applied directly in the processes of treatment and monitoring of critically ill patients.
- Acquired new knowledge in the field of ultrasound in emergency medicine, which can be applied directly in the processes of treatment and following of critically ill patients.
- Key skills in emergency medicine ultrasound.

**Prenesljive/ključne spremnosti in drugi atributi:**

Ovisno od raziskovalnega področja in samega raziskovalnega projekta.

**Transferable/Key Skills and other attributes:**

Depends on the research field and the research project.

**Metode poučevanja in učenja:**

**Learning and teaching methods:**

Predavanja, seminarji, seminarske vaje, samostojno raziskovalno delo.	Lectures, seminars, tutorials, independent research work.
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**Delež (v %) /**

**Weight (in %)**

**Assessment:**

<b>Načini ocenjevanja:</b>		
<ul style="list-style-type: none"> <li>• Ustni izpit</li> <li>• Seminarska naloga</li> </ul>	50% 50%	<ul style="list-style-type: none"> <li>• Oral exam</li> <li>• Seminar paper</li> </ul>

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Reference nosilca / Lecturer's references:

1. PETRAVIĆ, Luka, BAJEC, Boštjan, BURGER, Evgenija, TIEFENGREBER, Eva, SLAVEC, Ana, STRNAD, Matej. Emergency physician personnel crisis : a survey on attitudes of new generations in Slovenia. *BMC emergency medicine*. 2024, vol. 24, [article no.] 25, 14 str. ISSN 1471-227X. <https://bmcemergmed.biomedcentral.com/articles/10.1186/s12873-024-00940-z#MOESM4>, DOI: [10.1186/s12873-024-00940-z](https://doi.org/10.1186/s12873-024-00940-z). [COBISS.SI-ID [185604867](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
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3. KOŽELJ, Anton, STRAUSS, Maja, POŠTUVAN, Vita, STRAUSS KOŽELJ, Anže, STRNAD, Matej. Perception of personal participation of the nurses in resuscitation procedures: a qualitative study. *Medicina*. 2024, vol. 60, issue 2, [article no.] 196, str. [1]-14. ISSN 1648-9144. <https://doi.org/10.3390/medicina60020196>, <https://www.mdpi.com/1648-9144/60/2/196>, DOI: [10.3390/medicina60020196](https://doi.org/10.3390/medicina60020196). [COBISS.SI-ID [182387971](#)], [[JCR](#), [SNIP](#), [Scopus](#)]
4. FEKONJA, Zvonka, KMETEC, Sergej, MLINAR RELJIĆ, Nataša, ČERNE KOLARIČ, Jožica, PAJNKIHAR, Majda, STRNAD, Matej. Perceptions of patient safety culture among triage nurses in the emergency department : a cross-sectional study. *Healthcare*. 2023, vol. 11, issue 24, [article no.] 3155, str. 1-13, tabele. ISSN 2227-9032. <https://www.mdpi.com/2227-9032/11/24/3155>, DOI: [10.3390/healthcare11243155](https://doi.org/10.3390/healthcare11243155). [COBISS.SI-ID [177262595](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
5. STRNAD, Matej, BOROVNIK LESJAK, Vesna, JEROT, Pia, ESIH, Maruša. Prehospital predictors of survival in patients with out-of-hospital cardiac arrest. *Medicina*. 2023, vol. 59, issue 10, [article no.] 1717, str. [1]-9. ISSN 1648-9144. <https://www2.mdpi.com/1648-9144/59/10/1717>, <https://doi.org/10.3390/medicina59101717>, DOI: [10.3390/medicina59101717](https://doi.org/10.3390/medicina59101717). [COBISS.SI-ID [166626819](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
6. VUJANOVIĆ, Vitka, BOROVNIK 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](#)]
7. KOŽELJ, Anton, ŠIKIĆ POGAČAR, Maja, FIJAN, Sabina, STRAUSS, Maja, POŠTUVAN, Vita, STRNAD, Matej. Exploring the feelings of nurses during resuscitation : a cross-sectional study. *Healthcare*. 2022, vol. 10, no. 1, str. 1-12, tabele, graf. prikazi. ISSN 2227-9032. <https://www.mdpi.com/2227-9032/10/1/5>, <https://www.mdpi.com/2227-9032/10/1/5.htm>, DOI: [10.3390/healthcare10010005](https://doi.org/10.3390/healthcare10010005). [COBISS.SI-ID [90631427](#)], [[JCR](#), [SNIP](#), [WoS](#)] do 24. 1. 2024: št. citatov (TC): 6, čistih citatov (CI): 6, čistih citatov na avtorja (CIAu): 1.00, [Scopus](#) do 25. 1. 2024: št. citatov (TC): 6, čistih citatov (CI): 6, čistih citatov na avtorja (CIAu): 1.00
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