



Univerza v Mariboru

Medicinska fakulteta

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UČNI NAČRT PREDMETA / COURSE SYLLABUS													
Ime predmeta:		Izbrana poglavja iz kardiologije											
Course title:		Chosen Chapters from Cardiology											
Študijski program in stopnja Study programme and cycle				Študijska smer Study option			Letnik Year of study		Semester Semester				
Biomedicinska tehnologija/3. stopnja							2		3 ali 4				
Biomedical Technology/3rd Degree													
Vrsta predmeta (obvezni ali izbirni) / Course type (compulsory or elective)						Izbirni							
						Elective							
Univerzitetna koda predmeta / University course code:													
Predavanja Lectures		Seminar Seminar		Vaje Tutorial		Klinične vaje Clinical training		Druge oblike študija Other forms of study		Samost. delo Individual work		ECTS	
15		30		AV LV RV						135		6	
Nosilec predmeta / Course coordinator:				Prof. dr. Andreja Sinkovič									
Jeziki /Languages:		Predavanja / Lectures:				Slovenščina/Slovene							
		Vaje / Tutorial:											
Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:						Prerequisites for enrolling in the course or for performing study obligations:							
Vsebina (kratek pregled učnega načrta):						Content (syllabus outline):							
Raziskovalni principi na področju srčno-žilnih bolezni in z aktualnimi raziskovalnimi trendi na tem področju. Poudarek bo na biotehnoških metodah v diagnostiki in zdravljenju srčno žilnih bolezni ter povezavi med biotehnologijo in patofiziologijo (mikrooksigenacijo, makrooksigenacijo), oziroma patomorfologijo bolezni srca in ožilja. Področje posebnega zanimanja bo ateroskleroza, vključno in predvsem koronarna bolezen srca, tako akutni koronarni sindrom kot kronična ishemična srčna bolezen s posledičnim pešanjem srca. Pomembno področje zanimanja je tudi elektrofiziologija z aritmijami in elektrostimulacijo srca.						Acquaintance with principles of research and current research trends in the field of cardiovascular medicine. The emphasis will be biotechnological methods in diagnosis and treatment of cardiovascular diseases, as well as correlation between biotechnology and pathophysiology (microoxygenation, microoxygenation, etc.) and between biotechnology and pathology of cardiovascular diseases. Main interest will be atherosclerosis, especially coronary heart disease, including acute coronary syndromes and chronic ischemic heart disease with the consequent heart failure. Electrophysiology, arrhythmias and electrostimulation of the heart will also be studied.							

Temeljni literatura in viri / Reading materials:		
- Libby P, Bonow RO, Mann DL, Tomaselli GF, Bhatt DL, Solomon SD (Editorr). Braunwald's Heart Disease, 2 Vol Set: A Textbook of Cardiovascular Medicine 12th Edition, 2021 - Kasper DL, Braunwald E, Fauci A, Hauser S, Longo D, Jameson JL. Harrison's Principles of Internal Medicine. 16th ed. McGraw-Hill Professional 2004. - Košnik M, Štajer D (urednika). Interna medicina, 2018 - SINKOVIČ, Andreja, MARKOTA, Andrej, KRAŠEVEC, Manja, ŠURAN, David, MARINŠEK, Martin. The role of environmental PM2.5 in admission acute heart failure in ST-elevation myocardial infarction patients - an observational retrospective study. International journal of general medicine. 2021, vol. 14, str. 8473-8479. ISSN 1178-7074. https://doi.org/10.2147/IJGM.S340301, https://www.dovepress.com/the-role-of-environmental-pm25-in-admission-acute-heart-failure-in-st-peer-reviewed-fulltext-article-IJGM, DOI: 10.2147/IJGM.S340301. [COBISS.SI-ID 87618563]		
Cilji in kompetence:	Objectives and competences:	
Raziskovalno delo in samostojno raziskovalno delo na področju kardiologije, povezava rezultatov različnih biotehnoških metod (laboratorijski biomarkerji, elektrokardiografija, ultrazvok, uporaba intravenskih in arterijskih katetrov, itd.) s pojavnostjo, prognozo, patofiziologijo, patomorfologijo posameznih bolezenskih stanj v kardiologiji, ki bodo lahko osnova za nadaljnjo diagnostiko, zdravljenje, pa tudi raziskovanje tega področja.	Research work and to become autonomous in their research effort in the field of cardiovascular medicine To link together different biotechnological methods (estimation of laboratory biomarkers, electrocardiogram, ultrasound, the use of intravenous and arterial catheters, etc.) and epidemiology, clinical manifestation, prognosis, pathophysiology, patomorphology of different cardiovascular entities in order to provide results that would also represent the basic for further studies.	
Predvideni študijski rezultati:	Intended learning outcomes:	
Znanje in razumevanje: Pridobiti poglobljeno znanje in razumevanje patofiziologije na določenem področju srčno žilnih bolezni, predvsem akutnega koronarnega sindroma, aritmij, pešanja srca.	Knowledge and understanding: To acquire broad knowledge and understanding of pathophysiology of different cardiovascular diseases, especially of acute coronary syndromes, arrhythmias, heart failure	
Prenosljive/ključne spretnosti in drugi atributi: Te spretnosti so individualne in predvsem odvisne od vrste zastavljene raziskave	Transferable/key competences and other abilities: Practical and theoretical knowledge in assessing tissue oxygenation, metabolism and microcirculation in different conditions.	
Metode poučevanja in učenja:	Learning and teaching methods:	
Predavanja Seminarji (predvsem pa individualno raziskovalno delo) Samostojno delo	Lectures Seminars (but mostly individual engagement in research work) Individual work	
Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Method (written or oral exam, coursework, project):
Seminarska naloga	30 %	Seminar paper
Ustni izpit	70 %	Oral exam
Reference nosilca / Lecturer's refereces:		

Prof. dr. Andreja Sinkovič

SINKOVIČ, Andreja, MARKOTA, Andrej, KRAŠEVEC, Manja, ŠURAN, David, MARINŠEK, Martin. The role of environmental PM2.5 in admission acute heart failure in ST-elevation myocardial infarction patients - an observational retrospective study. International journal of general medicine. 2021, vol. 14, str. 8473-8479. ISSN 1178-7074. <https://doi.org/10.2147/IJGM.S340301>, <https://www.dovepress.com/the-role-of-environmental-pm25-in-admission-acute-heart-failure-in-st-peer-reviewed-fulltext-article-IJGM>, DOI: 10.2147/IJGM.S340301. [COBISS.SI-ID 87618563],

MARINŠEK, Martin, ŠURAN, David, SINKOVIČ, Andreja. Factors of hospital mortality in men and women with ST-elevation myocardial infarction - an observational, retrospective, single centre study. International journal of general medicine. 2023, vol. 16, str. 5955-5968, ilustr. ISSN 1178-7074. <https://www.dovepress.com/factors-of-hospital-mortality-in-men-and-women-with-st-elevation-myocardial-infarction-peer-reviewed-fulltext-article-IJGM>, <https://doi.org/10.2147/IJGM.S439414>, Digitalna knjižnica Univerze v Mariboru – DKUM, DOI: 10.2147/IJGM.S439414. [COBISS.SI-ID 178102019], [JCR, SNIP, WoS] kategorija: 1A3 (Z); uvrstitev: SCIE, Scopus, MBP (DOAJ, PUBMED); tip dela je verificiral OSICM točke: 24.24, št. avtorjev: 3

CVIKL KNEHTL, Maja, SINKOVIČ, Andreja. Interventions of a clinical pharmacist in a medical intensive care unit : a retrospective analysis. Bosnian journal of basic medical sciences. 2020, vol. 20, no. 4, str. 495-501, ilustr. ISSN 1840-4812. <https://bjbms.org/ojs/index.php/bjbms/article/view/4612/1305>, <https://dx.doi.org/10.17305/bjbms.2020.4612>, DOI: 10.17305/bjbms.2020.4612. [COBISS.SI-ID 6978367], [JCR, SNIP, WoS do 26. 10. 2022: št. citatov (TC): 3, čistih citatov (CI): 3, čistih citatov na avtorja (CIAu): 1,50, Scopus do 6. 9. 2022: št. citatov (TC): 3, čistih citatov (CI): 3, čistih citatov na avtorja (CIAu): 1,50] kategorija: 1A3 (Z); uvrstitev: SCIE, Scopus, MBP (CAB, MEDLINE, PUBMED, DOAJ); tip dela je verificiral OSICN točke: 35.99, št. avtorjev: 2