

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izbrana poglavja iz kardiologije
Course title:	Chosen Chapters from Cardiology

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

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. Delo Individ. Work	ECTS
15	30				105	5

Nosilec predmeta / Lecturer:

Prof. dr. Andreja Sinkovič
Prof. dr. Matej Podbregar

Jeziki /

Languages:

Predavanja / Lectures:

Slovensko / angleško
Slovene / english

Vaje / Tutorial:

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

Kandidat mora doseči 300 ECTS na predhodnem študiju.

Prerequisites:

Graduate degree 300 ECTS

Vsebina:

Raziskovalni principi na področju srčno-žilnih bolezni in z aktualnimi raziskovalnimi trendi na tem področju. Poudarek bo na biotehnoloških 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.

Content (Syllabus outline):

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 / Readings:

- Braunwald E, Zipes DP, Libby P, Bonow R (eds.). Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine. 7th ed. W.B. Saunders 2004.
- Kasper DL, Braunwald E, Fauci A, Hauser S, Longo D, Jameson JL. Harrison's Principles of Internal Medicine. 16th ed. McGraw-Hill Professional 2004.
- Dalla Volta S, Braunwald E, Bayes de Luna A, Jezek V, Brochier ML; Mortensen SA, Dienstl F, Poole-Wilson PA (eds.). Cardiology. 1st Edition. McGrawHill Companies 1999.

Cilji in kompetence:

Objectives and competences:

Raziskovalno delo in samostojno raziskovalno delo na področju kardiologije, povezava rezultatov različnih biotehnoloških 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.

Predvideni študijski rezultati:

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.

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.

Prenesljive/ključne spretnosti in drugi atributi:

Te spretnosti so individualne in predvsem odvisne od vrste zastavljene raziskave

Metode poučevanja in učenja:

Knowledge and understanding:

To acquire broad knowledge and understanding of pathophysiology of different cardiovascular diseases, especially of acute coronary syndromes, arrhythmias, heart failure

Transferable/Key Skills and other attributes:

Skills are individual and mainly depend on the goal of individual research study

Learning and teaching methods:

Predavanja, seminarji, predvsem pa individualno raziskovalno delo

Lectures, seminars, but mostly individual engagement in research work

Delež (v %) /

Weight (in %)

Načini ocenjevanja:

Assessment:

Sprotno ustno preverjanje znanja, kombinirano s kolokviji in seminarji po opravljenem individualnem delu, predvsem pa in tudi predstavitev rezultatov na konferencah v obliki posterjev, ustnih predstavitev, člankov.

Regular informal oral verifying of gathered knowledge combined with oral examinations, seminars after completed individual work and finally presentation of results at conferences as oral or poster presentations.