



Univerza v Mariboru
University of Maribor

Medicinska fakulteta
Faculty of Medicine



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Nefrologija
Subject Title:	Nephrology

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biomedicinska tehnologija Biomedical technology	Biotehnologija v nefrologiji Biotechnology in nephrology	2	3 ali 4

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Lab. work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
15	20		10		105	5

Nosilec predmeta / Lecturer:

Prof. dr. Radovan Hojs, prof.dr. Breda Balon Pečovnik

Jeziki / Predavanja / Lecture: Slovensko / angleško Slovene / English
Languages: Vaje / Tutorial: slovensko / angleško Slovene / English

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

Prerequisites:

Kandidat mora doseči 300 ECTS na predhodnem študiju.

Graduate degree 300 ECTS

Vsebina:

Uvod in individualno raziskovalno delo na področju nefrologije in dialize - poudarek na tehničnih možnostih oz. uporabi biotehnologije v diagnostiki bolezni, sledenju bolezenskih procesov, oceni prognoze, uporaba (bio)materialov v dializi, itd. Poudarek je na:

- srčno žilne bolezni pri bolnikih s kronično ledvično odpovedjo (KLO), tudi končno
- proces ateroskleroze pri bolnikih s KLO
- kostne spremembe pri bolnikih s KLO
- metabolizem mineralov pri bolnikih s KLO
- glomerulna filtracija - ocenjevanje
- arterijska hipertenzija pri bolnikih s KLO, vključno z zapleti

Contents (Syllabus outline):

Introduction and individual research work in the field of nephrology and dialysis - with special emphasis on technical possibilities and use of biotechnology in diagnostics, evaluation and prognosis of diseases, and also use of different (bio)materials in dialysis, etc. Emphasis is on:

- cardiovascular diseases in patients with chronic renal failure / disease (CRF)
- atherosclerosis in patients with CRF
- bone metabolism in patients with CRF
- glomerular filtration rate - evaluation
- arterial hypertension in patients with CRF (including complications)

Temeljni študijski viri / Textbooks:

- Brenner BM ed. Brenner & Rector's: The Kidney. 6th ed. W.B. Saunders Company 2000, CD rom
- Davison AM, Cameron JS, Grünfeld JP, Kerr DNS, Ritz E, Winearls CG eds. Oxford textbook of clinical nephrology. 2nd ed. Oxford, New York: Oxford University Press 1998
- Braunwald E, Fauci AS, Kasper DL, Hauser SL, Longo DL, Jameson JL. Harrison's Principles of Internal Medicine, 15th Edition. New York: McGraw-Hill 2001

Cilji:

Spoznavanje in sposobnost raziskovanja na področju nefrologije in dialize z uporabo različnih tehnologij (npr. ultrazvok itd.), uporaba (bio)materialov

Objectives:

To realize and to be qualified in research in the field of nephrology and dialysis with the use of different technologies (ultrasound etc.), use of (bio)material

Predvideni študijski rezultati:

Znanje in razumevanje:
 Poglobljeno znanje posameznega individualnega raziskovanja v nefrologiji in dializi z uporabo različnih tehnologij, razumevanje raznih tehnologij v diagnostiki, sledenju, prognozi in zdravljenju

Prenesljive/ključne spretnosti in drugi atributi:
 - individualno odvisno od raziskovalnega dela

Metode poučevanja in učenja:

Predavanja, seminarji in predvsem individualno raziskovalno delo

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt)
 - sprotno ustno preverjanje, kolokvij po opravljenih predavanjih in seminarju, seminar po končanem individualnem delu, prispevki opravljenega dela (posterske predstavitve, itd.)

Delež (v %) /
 Weight (in %)

Intended learning outcomes:

Knowledge and Understanding:
 To deepen the knowledge in different fields in nephrology and dialysis with the use of different technologies, also understanding of different technologies in diagnostics, evaluation, prognosis and treatment

Transferable/Key Skills and other attributes:
 - dependent individually of research made

Learning and teaching methods:

Lectures, seminars, tutorials and individual research

Assessment:

Type (examination, oral, coursework, project):
 Simultaneous oral examinations, test after lectures and seminars, seminar after individual work, presentations (poster, oral, etc.)

Materialni pogoji za izvedbo predmeta :

Odvisno od raziskovalnega dela (laboratorijska oprema, ultrazvočne aparature, itd.)

Material conditions for subject realization

Depends on individual research (lab. equipment, ultrasound, etc.)

Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

Ustno preverjanje napredovanja v raziskovalnem delu, kolokvij po opravljenih predavanjih in seminarju, seminar po končanem individualnem delu ter objavljen del projekta

Students' commitments:

(written, oral examination, coursework, projects):

Oral examination of progress in research, test after lectures and seminars, publication of the project - partly