



Univerza v Mariboru

Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Klinična farmakologija
Course title:	Clinical pharmacology

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Biomedicinska tehnologija		2	3 ali 4

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
15	30				105	5

Nosilec predmeta / Lecturer:

Doc. dr. Sebastjan Bevc

Jeziki /

Languages:

Predavanja / Lectures:

Slovenski / Slovene

Vaje / Tutorial:

Slovenski / Slovene

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

Kandidat mora doseči 300 ECTS na predhodnem študiju.

Prerequisites:

Graduate degree 300 ECTS

Vsebina:

- Razvoj zdravila in klinično preizkušanje
- Škodljivi učinki zdravila
- Klinične interakcije zdravil
- Farmakoterapija pri rizični populaciji
- Predpisovanje zdravil
- Farmakologija integriranih sistemov
- Koronarna srčna bolezen in miokardni infarkt
- Arterijska hipertenzija
- Popuščanje srca
- Sladkorna bolezen
- Bakterijske infekcije
- Virusne in glivične infekcije
- Bolezni prebavil
- Kronična ledvična bolezen
- Modeliranje in simuliranje v klinični farmakologiji

Content (Syllabus outline):

- Drug development and clinical trials
- Drug infects
- Clinical drug interactions
- Drug therapy in populations with special risk
- Drug prescription
- Pharmacology of integrated systems
- Coronary heart diseases and myocardial infarction
- Arterial hypertension
- Heart failure
- Diabetes mellitus
- Bacterial infections
- Infections by viruses and fungi
- Gastrointestinal diseases
- Chronic kidney disease
- Modelling and simulation in clinical pharmacology

Temeljni literatura in viri / Readings:

- Dipiro JT et al. eds. Pharmacotherapy, A Pathophysiologic Approach 8th ed. Mc Graw-Hill 2011.
- Hardman JG, Limbird LE, Gilman AG eds. Goodman and Gilman's The pharmacological basis of therapeutics. New York. Mc Graw Hill 2001.
- Katzung BG ed. Basic and clinical pharmacology. New York: Mc Graw Hill, 2001.
- Sirtori CR et al. Clinical pharmacology. London: Mc Graw Hill, 2000.
- Brody TM, Larner J, Minneman KP. Human pharmacology. St. Louis: Mosby, 1998.

Cilji in kompetence:

Obvladovanje metodologije klinične farmakologije v neposredni klinični praksi, sposobnost za pisanje znanstvenega članka, dizajniranje in izvedbo kliničnih raziskav.

Objectives and competences:

Knowledge of methodology of clinical pharmacology in clinical practice, capability for writing scientific article, designing and running of clinical trial.

Predvideni študijski rezultati:

Znanje in razumevanje:

- epidemiologija in statistika v klinični farmakologiji
- principi na izsledkih temelječe medicine
- oblikovanje sistemskega pregleda

Prenesljive/ključne spretnosti in drugi atributi:

- svetovanje strokovnjakom po specialnostih s področja klinične farmakologije
- izračunavanje doz in izbiranje zdravil pri rizični populaciji

Intended learning outcomes:

Knowledge and understanding:

- epidemiology and statistic in clinical pharmacology
- concepts of evidence-based-medicine
- creating of systemic review

Transferable/Key Skills and other attributes:

- consulting from the point of clinical pharmacology for other specialists
- calculated of doses and selecting of drugs in population at risk

Metode poučevanja in učenja:

- Predavanja
- Seminarji in delavnice
- Individualno delo s študenti

Learning and teaching methods:

- Lectures
- Seminars and work-shops
- Individual consultations with students

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt)

- ustni izpit
- seminarska naloga

Delež (v %) /
Weight (in %)

50%
50%

Assessment:

Type (examination, oral, coursework, project):

- oral examination
- project

Reference nosilca / Lecturer's references:

BEVC S, EKART R, HOJS R. Serum creatinine and estimation of kidney function. V: PERKINS, Ivan H. (ur.), CHAPMAN, Catherine M. (ur.). *Creatinine : production, diagnostic uses and role in renal disease*, (Biochemistry research trends). New York: Nova Science, cop. 2012, str. [151]-160.

BEVC S. Aldosteron, zaviralci aldosteronskih receptorjev in kronična ledvična bolezen = Aldosterone, aldosterone receptor blockers and chronic kidney disease. *Zdrav Vestn (Tisk. izd.)*. [Tiskana izd.], nov. 2011, letn. 80, št. 11, str. 838-844.

BEVC S, EKART R. Akutna ledvična okvara povzročena z zdravili = Drug induced acute kidney injury. V: HOJS, Radovan (ur.), KRAJNC, Ivan (ur.), PAHOR, Artur (ur.), SKOK, Pavel (ur.), SKALICKY, Marjan (ur.). 23. srečanje internistov in zdravnikov družinske medicine "Iz prakse za prakso", Maribor, 25. in 26. maj 2012.

EKART R, BEVC S, HOJS R, HOJS N. Proteinuria and albuminuria during and after paricalcitol treatment in chronic kidney disease patients. *J Clin Pharmacol*. 2015 Oct 14. [Epub ahead of print]

BAKRIS GL, PITT B, WEIR MR, FREEMAN MW, MAYO MR, GARZA D, STASIV Y, ZAWADZKI R, BERMAN L, BUSHINSKY DA; AMETHYST-DN Investigators: Effect of Patiromer on Serum Potassium Level in Patients With Hyperkalemia and Diabetic Kidney Disease: The AMETHYST-DN Randomized Clinical Trial. *JAMA*. 2015 Jul 14; 314(2):151-61.