

	UČNI NAČRT PREDMETA/COURSE SYLLABUS
Predmet Course title	Medikalizacija staranja <i>Medicalization of Aging</i>

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Integrirana zdravstvena in socialna oskrba/2. stopnja	Ni smeri študija	2. letnik	3.
Integrated Health and Social Care / 2 nd Cycle	No study field	2 nd year	3 rd

Vrsta predmeta/Course type

modularni /module

Univerzitetna koda predmeta/University course code

IZSO M1 UN 2

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30		30			180	8

Nosilec predmeta/Lecturer:

Jeziki/ Predavanja/Lectures:
Languages:

slovenski/Slovenian

Vaje/Tutorial:

slovenski/Slovenian

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

Prerequisites:

- Vpis v drugi letnik študijskega programa.
- Študent mora pred izpitom pripraviti in predstaviti ter zagovarjati projektno/raziskovalno nalogo.

- A prerequisite for inclusion is enrolment in the second year of study.
- Student has to prepare, present and defend a project/research paper before the exam.

Vsebina:

Content (Syllabus outline):

- *Patofiziološke osnove staranja* spremenjena sestava tkiv, spremenjeno delovanje organov - ledvic, jeter, srčno-žilnega sistema, prebavil, endokrinega sistema in osrednjega živčevja
- *Farmakodinamika zdravil v starosti* spremembe na receptorjih za endogene mediatirje in zdravila, spremembe znotrajceličnih poti, encimov ter celičnih procesov, ki vplivajo na delovanje zdravil
- *Farmakokinetika zdravil v starosti*

- *Pathophysiological principles of aging* altered compositions of tissues, altered function of organs – kidneys, liver, cardiovascular system, gastrointestinal tract, endocrine system and central nervous system
- *Pharmacodynamics of medications in aging* changes in receptors for endogenous mediators and drugs, changes in intracellular signalling pathways, enzymes and cellular processes that influence the medicines effects

<p>spremembe v absorpciji, porazdelitvi, metabolizmu in izločanju zdravil</p> <ul style="list-style-type: none"> • <i>Neželeni učinki zdravil</i> posledice spremenjene farmakodinamike in farmakokinetike zdravil pri starostnikih • <i>Medsebojno delovanje zdravil in polifarmakoterapija</i> povečana ali zmanjšana učinkovitost zdravil zaradi jemanja več zdravil hkrati • <i>Farmakoterapevtski izzivi – kronične bolezni starostnikov</i> <ul style="list-style-type: none"> • Srčno-žilne bolezni • Pljučne bolezni • Endokrine bolezni • Bolezni prebavil in prehrana • Bolezni izločal • Bolezni osrednjega živčevja • Bolezni mišično-skeletnega sistema in vezivnih tkiv • Anemija in zaščitna terapija • Infekcije • Bolečina • <i>Nevarnosti domače lekarne</i> • <i>Vloga medicinske sestre pri jemanju zdravil starostnikov</i> 	<ul style="list-style-type: none"> • <i>Pharmacokinetics of medications in aging</i> Changes in absorption, distribution, metabolism and elimination of drugs • <i>Adverse drug events</i> consequences of changed drug pharmacodynamics and pharmacokinetics in aging • <i>Drug-drug interactions and polypharmacotherapy</i> increased or decreased drug effects due to polipharmacotherapy • <i>Pharmacotherapeutic issues - chronic diseases of elderly</i> <ul style="list-style-type: none"> • Cardiovascular disorders • Respiratory disorders • Endocrine disorders • Gastrointestinal disorders and nutrition • Renal/urologic disorders • Central nervous system disorders • Musculoskeletal and connective tissue disorders • Anaemia and preventive therapy • Infections • Pain • <i>The risk of domestic pharmacy drugs</i> • <i>The role of the nurse in medication of elderly</i> •
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Hutchison, L.C. in Sleeper, R.B. (2015). *Fundamentals of geriatric pharmacotherapy: an evidenced-based approach, 2nd ed.* Bethesda, : American Society of Health-System Pharmacists
- Atkinson, S. (2012). *Geriatric Pharmacology: The Principles of Practice & Clinical Recommendations.* Eau Claire, Wisconsin: PHC Publishing Group.
- Rang, H.P., Dale, M.M., Ritter, J.M. in Flower, R.J. (2015). *Rang and Dale's Pharmacology, 8th ed.* Edinburgh: Churchill, Livingstone

Priporočljiva literatura/Recommended literature

- Kladnik-Januš, B. (2006). *Farmakologija.* Maribor. Visoka zdravstvena šola.
- Karch, A.M., Sheader, E., Speake, T. in Griffiths, C. (2010). *Focus on Nursing Pharmacology - UK Edition.* London: Lippincott Williams & Wilkins.
- Izbrani članki iz zbornikov znanstvenih srečanj, izbrani članki iz domačih in tujih znanstvenih revij, izbrane internetne strani.

Cilji in kompetence:

Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:

- povezovanje znanja interdisciplinarnih strokovnih področij, osvajanje novega znanja na področju holistične in k pacientu usmerjene zdravstvene in socialne oskrbe,
- prepoznavanje najpogostejših zdravstvenih in socialnih problemov, ki jih prinašajo kronične bolezni
- medpoklicno sodelovanje pri izvajanju integrirane in kontinuirane oskrbe na področju skrbi za zdravje, kakovost življenja in dobro počutje pacientov v instituciji ali na domu,
- kakovostno komuniciranje v negovalnem, zdravstvenem in multiprofesionalnem timu, razvoj in vzdrževanje dobrih medsebojnih odnosov med zaposlenimi, pacienti, njihovimi družinami, skupinami in skupnostjo.

Objectives and competences:

The learning unit mainly contributes to the development of the following general and specific competences:

- integration of knowledge of interdisciplinary fields of expertise, the conquest of new knowledge in the field of holistic and patient-oriented health and social care,
- identification of the most common health and social problems posed by chronic diseases
- interprofessional collaboration in the implementation of an integrated and continuous care in the field of health care, quality of life and well-being of patients in an institution or at home
- quality communication in nursing, healthcare and multi-professional team, developing and maintaining good relations between employees, patients, their families, and community groups,

Predvideni študijski rezultati:***Študent/študentka:***

- pozna patofiziološke spremembe, ki vplivajo na farmakokinetični in farmakodinamski odziv na zdravila pri starostnikih,
- razume prilagojene načine zdravljenja kroničnih bolezni starostnikov,
- se usposobi za vrednotenje starostnikovega zdravstvenega stanja in za nadzor nad pravilnim jemanjem zdravil starostnikov na domu ali v instituciji.

Intended learning outcomes:***Students:***

- knows the pathophysiological changes that affect the pharmacokinetic and pharmacodynamic response to medications in the elderly,
- understands customized methods of treatment chronic diseases of the elderly,
- develops skills for evaluation of the elderly health monitoring and oversight of the proper administration of medications for older people at home or in an institution.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),

Learning and teaching methods:

- *lectures* with active student participation (explanation, discussion, questions, examples, problem solving);

<ul style="list-style-type: none"> • <i>seminarske vaje</i>: priprava, predstavitev in uspešen zagovor projektne/raziskovalne naloge, • <i>konzultacije</i>. 	<ul style="list-style-type: none"> • <i>tutorial</i>: preparation, presentation and a successful defence of a project/research paper, • <i>consultations</i>.
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Načini ocenjevanja:	Delež (v %) Weight (in %)	Assessment:
Načini: <ul style="list-style-type: none"> • izpit • izdelava, predstavitev in zagovor projektne/raziskovalne naloge Ocenjevalna lestvica: ECTS.	50 % 50 %	Types: <ul style="list-style-type: none"> • exam • preparation, presentation and defence of the project/research paper Grading scheme: ECTS.