

	<b>UČNI NAČRT PREDMETA/COURSE SYLLABUS</b>
<b>Predmet</b>	<b>Medikalizacija staranja</b>
<b>Course title</b>	<b>Medicalization of aging</b>

<b>Študijski program in stopnja</b> <b>Study programme and level</b>	<b>Študijska smer</b> <b>Study field</b>	<b>Letnik</b> <b>Academic year</b>	<b>Semester</b> <b>Semester</b>
Integrirana zdravstvena in socialna oskrba/2. stopnja	Ni smeri študija	2. letnik	3.
Nursing Care / 2 <sup>nd</sup> Cycle		2 <sup>nd</sup> year	3 <sup>rd</sup>

**Vrsta predmeta/Course type**

modularni /module

**Univerzitetna koda predmeta/University course code**

IZSO MI UN 2

<b>Predavanja</b> <b>Lectures</b>	<b>Seminar</b> <b>Seminar</b>	<b>Sem. vaje</b> <b>Tutorial</b>	<b>Lab. vaje</b> <b>Laboratory work</b>	<b>Teren. vaje</b> <b>Field work</b>	<b>Samost. delo</b> <b>Individ. work</b>	<b>ECTS</b>
25		30			125	6

**Nosilec predmeta/Lecturer:**

doc. dr. Damijana Mojca Jurič

**Jeziki/**  
**Languages:**

**Predavanja/Lectures:** slovenski/Slovenian

**Vaje/Tutorial:** slovenski/Slovenian

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

**Prerequisites:**

Vpis v drugi letnik študijskega programa.

A prerequisite for inclusion is enrolment in the second year of study.

**Vsebina:**

**Content (Syllabus outline):**

<ul style="list-style-type: none"> <li>• <i>Patofiziološke osnove staranja</i> spremenjena sestava tkiv, spremenjeno delovanje organov - ledvic, jeter, srčno-žilnega sistema, prebavil, endokrinega sistema in osrednjega živčevja</li> <li>• <i>Farmakodinamika zdravil v starosti</i> spremembe na receptorjih za endogene mediatorje in zdravila, spremembe znotrajceličnih poti, encimov ter celičnih procesov, ki vplivajo na delovanje zdravil</li> <li>• <i>Farmakokinetika zdravil v starosti</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Pathophysiological principles of aging</i> altered compositions of tissues, altered function of organs – kidneys, liver, cardiovascular system, gastrointestinal tract, endocrine system and central nervous system</li> <li>• <i>Pharmacodynamics of medications in aging</i> changes in receptors for endogenous mediators and drugs, changes in intracellular signalling pathways, enzymes and cellular processes that influence the</li> </ul>
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<p>spremembe v absorpciji, porazdelitvi, metabolizmu in izločanju zdravil</p> <ul style="list-style-type: none"> <li>• <i>Neželeni učinki zdravil</i> posledice spremenjene farmakodinamike in farmakokinetike zdravil pri starostnikih</li> <li>• <i>Medsebojno delovanje zdravil in polifarmakoterapija</i> povečana ali zmanjšana učinkovitost zdravil zaradi jemanja več zdravil hkrati</li> <li>• <i>Farmakoterapevtski izzivi – kronične bolezni starostnikov</i> <ul style="list-style-type: none"> <li>• Srčno-žilne bolezni</li> <li>• Pljučne bolezni</li> <li>• Endokrine bolezni</li> <li>• Bolezni prebavil in prehrana</li> <li>• Bolezni izločal</li> <li>• Bolezni osrednjega živčevja</li> <li>• Bolezni mišično-skeletnega sistema in vezivnih tkiv</li> <li>• Anemija in zaščitna terapija</li> <li>• Infekcije</li> <li>• Bolečina</li> </ul> </li> <li>• <i>Nevarnosti domače lekarne</i></li> <li>• <i>Vloga medicinske sestre pri jemanju zdravil starostnikov</i></li> </ul>	<p>medicines effects</p> <ul style="list-style-type: none"> <li>• <i>Pharmacokinetics of medications in aging</i> Changes in absorption, distribution, metabolism and elimination of drugs</li> <li>• <i>Adverse drug events</i> consequences of changed drug pharmacodynamics and pharmacokinetics in aging</li> <li>• <i>Drug-drug interactions and polypharmacotherapy</i> increased or decreased drug effects due to polypharmacotherapy</li> <li>• <i>Pharmacotherpaeutic issues - chronic diseases of elderly</i> <ul style="list-style-type: none"> <li>• Cardiovascular disorders</li> <li>• Respiratory disorders</li> <li>• Endocrine disorders</li> <li>• Gastrointestinal disorders and nutrition</li> <li>• Renal/urologic disorders</li> <li>• Central nervous system disorders</li> <li>• Musculoskeletal and connective tissue disorders</li> <li>• Anaemia and preventive therapy</li> <li>• Infections</li> <li>• Pain</li> </ul> </li> <li>• <i>The risk of domestic pharmacy drugs</i></li> <li>• <i>The role of the nurse in medication of elderly</i></li> </ul>
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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 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:*****Student/šudentka:***

- 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:*****Knowledge and understanding:******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"> <li>• <i>vaje</i>: priprava, predstavitev in uspešen zagovor projektne/raziskovalne naloge (reševanje problemov, študije primera, kritično presojanje, diskusija, refleksija izkušenj, vrednotenje, projektno delo, timsko delo).</li> </ul>	<ul style="list-style-type: none"> <li>• <i>tutorial</i>: preparation, presentation and a successful defence of a project paper (problem solving, case studies with discussion, methods of critical thinking, reflection of experience, evaluating, project work, team work).</li> </ul>
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<b>Načini ocenjevanja:</b>	Delež (v %) Weight (in %)	<b>Assessment:</b>
<p>Način:</p> <ul style="list-style-type: none"> <li>• 100% udeležba na predavanjih in vajah: priprava, predstavitev in zagovor raziskovalne naloge – 100 % ocene;</li> <li>• če študent ni 100 % udeležen na predavanjih in vajah: <ul style="list-style-type: none"> <li>- izpit – 60 % ocene,</li> <li>- priprava, predstavitev in zagovor raziskovalne naloge – 40 % ocene.</li> </ul> </li> </ul> <p>Ocenjevalna lestvica: ECTS.</p>	<p>100%</p> <p>ali</p> <p>60 %</p> <p>40 %</p>	<p>Types:</p> <ul style="list-style-type: none"> <li>• 100% active participation in class discussions and preparation, presentation and defense of research papers - 100% of the grade;</li> <li>• If the student is not 100% involved in class discussions: <ul style="list-style-type: none"> <li>▪ exam - 60% of the grade, preparation, presentation and defense of the research paper - 40% of the grade.</li> </ul> </li> </ul>