

ORTOPEDIJA IN TRAVMATOLOGIJA

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	Ortopedija in travmatologija
Course title:	Orthopedics and Traumatology
Članica nosilka/UL Member:	UL MF

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Medicina, druga stopnja, enovit magistrski	Medicina (študijski program)	5. letnik	IX./X.	obvezni

Univerzitetna koda predmeta/University course code:	0025125
Koda učne enote na članici/UL Member course code:	317

Vsebinski sklopi*	Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
1 Ortopedija	12	18	0	30	0	60	4
2 Travmatologija	11	4	0	0	0	15	1
SKUPAJ	23	22	0	30	0	75	5

Vsebinski sklopi: 1 – Ortopedija, 2 – Travmatologija

Nosilec predmeta/Lecturer:	1. Blaž Mavčič 2. Matej Cimerman
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Vrsta predmeta/Course type:	Obvezni/Compulsory
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Jeziki/Languages:	Predavanja/Lectures: Slovenščina
	Vaje/Tutorial: Slovenščina

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

Prerequisites:

Vpis v peti letnik.	Enrollment in the fifth year of studies.
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Vsebina:

Content (Syllabus outline):

Predmet je vsebinsko razdeljen na dva sklopa 1. Ortopedija 2. Travmatologija V okviru obeh sklopov bo obnovljena topografska anatomija gibal, fizikalne in fiziološke osnove kinematike gibal, opisi bolezni in poškodb gibal, poti ugotavljanja bolezni in poškodb gibal, načini zdravljenja bolezni in poškodb gibal, kirurški posegi na bolnikih s poškodbami in boleznimi gibal ter načini preprečevanja poškodb in bolezni gibal.	Subject consists of two subdivisions 1. Orthopaedics 2. Traumatology The subject consists of musculoskeletal topographic anatomy review, physical and physiological basic musculoskeletal kinematics, description of musculoskeletal diseases and injuries, treatment options of musculoskeletal diseases and injuries, surgical procedures on patients with musculoskeletal disorders, prevention of musculoskeletal diseases or injuries.
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Temeljna literatura in viri/Readings:

1. Antolič V, Herman S, Pavlovčič V: Srakarjeva Ortopedija (II. izdaja), 2006.
2. Vengust R: Degenerativne bolezni ledvene hrbtenice in operativno zdravljenje. Mavrica 2009.
3. Drobnič M: Osnove kliničnega ortopedskega pregleda. Univerza v Ljubljani, MF, 2019.
4. Hamblen DL, Simpson H: Adams's Outline of Orthopaedics 14th ed. Churchill Livingstone 2010.
5. Zborniki "Ortopedski dnevi" 2002-2012.
6. Smrkolj V., Kirurgija, Celje 2014.
7. Smrkolj V. Praktikum ambulantne operacijske kirurgije, Ljubljana 2001.
8. Smrkolj V., Komadina R. Gerontološka travmatologija Celje 2004.
9. McRae, Robert, Esser Max. Practical Fracture Treatment. Elsevier Churchill Livingstone, 2008. Chapters: Section A: 1-5; Section B: 6-15.

Cilji in kompetence:

Študent spozna najpogostejše bolezni in poškodbe skeleta in gibalnega sistema, nauči se načine, kako iz anamnestičnih podatkov in preiskav stopenjsko gradi diagnozo bolezni ali poškodbe. Nauči se samostojno nuditi nujno medicinsko pomoč pri teh boleznih gibal ali poškodbah, nauči se mora trenutno veljavne načine zdravljenja in seznaniti se z možnim bodočim razvojem načina zdravljenja. Predvsem bomo študenta usmerjali k holističnem razumevanju bolezni in poškodb s poudarjanjem vpliva bolezni gibal in poškodb na gibalnih na celoten organizem, tudi v psihosocialnem smislu, in po drugi strani vpliva posamezne bolezni izven gibal na stanje gibalnega sistema.

Objectives and competences:

Students learn about the most common diseases and injuries of the skeleton and the musculoskeletal system, they learn the anamnestic data acquisition and build investigation steps to the diagnosis of disease or injury. They learn emergency medical assistance in these diseases or injuries, the current methods of treatment and the possible future development of the method of treatment. Above all, the student will be directed to holistic understanding of diseases and injuries by emphasizing the impact of diseases and injuries to the musculoskeletal system, the whole psycho-social organism and the impact of diseases outside of the musculoskeletal system on the locomotion.

Predvideni študijski rezultati:

Znanje in razumevanje
S pridobljenim znanjem bo študent lažje razumel druge bolezni, ki se kažejo tudi z znaki na gibalnih in razumel medsebojni vpliv bolezni in poškodb ter razvoj bolezni in poškodb.

Uporaba
Študent bo sposoben uporabiti znanje v klinični praksi, predvsem razmejiti do katere meje lahko zdravi sam in kdaj mora uporabiti nasvet specialista

Refleksija
Z velikim številom predstavljenih primerov bo lahko študent kritično vrednotil opise bolezni v učbenikih in si pričel ustvarjati lastno bazo izkušenj.

Prenosljive spretnosti – niso vezane le na en predmet
Način (poti) reševanja (ugotavljanja) kliničnih primerov.

Intended learning outcomes:

Knowledge and Understanding
With this knowledge the student will easier understand other diseases that also influence the musculoskeletal system and understand the interactions of disease and injury and the development of diseases and injuries

Use
The student will use the knowledge in clinical practice, mainly to demarcate the boundaries of what can the doctor can treat himself and when to refer to a specialist.

Reflection
With a large number of cases presented, the student will be able to critically evaluate descriptions of diseases in textbooks and to create his own base of experience.

Transferable skills – not tied to just one subject
Pathways of solving (assessing) clinical cases.

Metode poučevanja in učenja:	Learning and teaching methods:
1. mini simpoziji 2. predavanja 3. seminarske vaje 4. vaje ob bolniku 5. predstavitev primerov 6. klinične konference 7. poročila iz literature 9. praktično delo na modelih 10. reševanje papirnatih kliničnih primerov 11. delo v ambulantah, operacijskih dvoranh, delavnice	1. mini symposia 2. lectures 3. seminar practice 4. bedside practice with patients 5. case presentations 6. clinical conferences 7. literature reports 8. practical work on models 9. theoretical solving of clinical cases 10. work in outpatient department, operation theatre, practical workshops

Načini ocenjevanja:	Delež/Weight	Assessment:
Pisni izpit – vprašanja na obkrožanje iz Travmatologije	20,00 %	Written test - multiple choice questions
Pisni izpit – esejska vprašanja iz Ortopedije	50,00 %	Written test - essay questions
Ustni izpit iz Ortopedije	30,00 %	Oral exam Orthopaedics

Izpit iz Ortopedije in Travmatologije se opravlja, izvaja in ocenjuje ločeno, študentje lahko vsak del opravijo ali popravljajo posebej. Ko študent pozitivno opravi oba predmeta, se skupna ocena izračuna iz seštevka točk obeh predmetov (Ortopedija do 80 točk, Travmatologija do 20 točk).

Reference nosilca/Lecturer's references:

Blaž Mavčič

- 1.) Roškar S, Antolič V, Mavčič B. Implant Survival of 680 Consecutive EcoFit® Flat Single-Wedge Cementless Femoral Stems is Equivalent to the Taperloc® Total Hip Arthroplasty Series. *Indian J Orthop.* 2022 Sep 5;56(11):1969-1977. PMID: 36310558
- 2.) Kropivšek L, Pižem J, Mavčič B. Giant Cell Tumor of Bone Versus Tenosynovial Giant Cell Tumor - Similarities and Differences. *Int J Surg Pathol.* 2022 Sep;30(6):596-605. PMID: 35098753
- 3.) Kropivšek L, Roškar S, Zore LA, Antolič V, Mavčič B. Cohort analysis of two thousand nine hundred forty-three Link Lubinus SP II cemented total hip arthroplasties from a single hospital with surgeon stratification and twenty six thousand, nine hundred and eighty one component-years of follow-up. *Int Orthop.* 2022 Apr;46(4):797-804. PMID: 35076769
- 4.) Smolle MA, Gilg MM, Machacek F, Smerdelj M, Tunn PU, Mavcic B, Lujic N, Sopta J, Repsa L, Igrec J, Leithner A, Bergovec M. Osteoid osteoma of the foot : Presentation, treatment and outcome of a multicentre cohort. *Wien Klin Wochenschr.* 2022 Jun;134(11-12):434-441. PMID: 34735614
- 5.) Pižem J, Šekoranja D, Matjašič A, Zupan A, Boštjančič E, Limpel Novak KA, Salapura V, Mavčič B, Gazič B, Dimnik K. The role of molecular diagnostics in aneurysmal and simple bone cysts - a prospective analysis of 19 lesions. *Virchows Arch.* 2021 Oct;479(4):795-802. PMID: 34089379
- 6.) Mavčič B, Antolič V. Cementless femoral stem fixation and leg-length discrepancy after total hip arthroplasty in different proximal femoral morphological types. *Int Orthop.* 2021 Apr;45(4):891-896. PMID: 32572540

Matej Cimerman

- 1.) Jug M, Tomažević M, Cimerman M. 3D model-assisted instrumentation of the pediatric spine: a technical note. *J Orthop Surg Res.* 2021 Oct 12;16(1):586. PMID: 34641923
- 2.) Ukaj S, Veselko M, Krasniqi S, Podvorica V, Ukaj F, Ahmeti A, Hernigou P, Cimerman M. Cemented stems in healthy elderly patients result in higher hypoxia despite a paradoxical lower femoral increase of intramedullary pressure. *Int Orthop.* 2021 Apr;45(4):915-922. PMID: 33528632
- 3.) Kristan A, Omahen S, Tosounidis TH, Cimerman M. When does hip fracture surgery delay affects the length of hospital stay? *Eur J Trauma Emerg Surg.* 2022 Apr;48(2):701-708. PMID: 33388817

- 4.) Cimerman M, Kristan A, Jug M, Tomaževič M. Fractures of the acetabulum: from yesterday to tomorrow. *Int Orthop*. 2021 Apr;45(4):1057-1064. PMID: 32964295
- 5.) Jug M, Kejžar N, Cimerman M, Bajrović FF. Window of opportunity for surgical decompression in patients with acute traumatic cervical spinal cord injury. *J Neurosurg Spine*. 2019 Dec 27:1-9. PMID: 31881537
- 6.) Tomaževič M, Kaiba T, Kurent U, Trebše R, Cimerman M, Kralj-Iglič V. Hip stress distribution - Predictor of dislocation in hip arthroplasties. A retrospective study of 149 arthroplasties. *PLoS One*. 2019 Nov 20;14(11):e0225459. PMID: 31747433