

MEDLI

Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN 2023/2024

Za kolegij

Orthopaedics

Studij:Medical Studies in English (R)
Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:Katedra:Katedra za ortopediju i fizikalnu medicinu
doc. dr. sc. Prpić Tomislav, dr. med.

Godina studija:5ECTS:3.5Stimulativni ECTS:0 (0.00%)Strani jezik:Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

Orthopaedics is compulsory course on 5th year of study. It consists of 30 lectures and 32 practical hours (3,5 ECTS). Lectures and practicals will be organized at Clinic for orthopedic surgery Lovran, M. Tita 1, Lovran.

In the case of the unfavorable epidemiological situation educational process will be held online.

Learning outcomes:

- identify disorders and injuries of musculoskeletal system
- diagnose and explain causes of impairment of musculoskeletal system
- distinguish diagnostic and therapeutic procedures used to treat disorders and injuries of musculoskeletal system
- evaluate importance of right treatment method for orthopedic patient
- integrate acquired knowledge with general approach to the patient

Popis obvezne ispitne literature:

1. Apley and Solomon's System of Orthopaedics and Trauma, 10th ed., CRC Press, 2017

Popis dopunske literature:

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Nastavni plan:

Predavanja popis (s naslovima i pojašnjenjem):

L1. Introduction and history of orthopedics

Acquiring knowledge about history of orthopedics .Get acquainted with goal of orthopedics

L2. History, clinical examination, types of orthopaedic operations

Get acquainted with basics in anamnesis , clinical examination, diagnostics and therapy in orthopedics

L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging)

Get acquinted with diagnostic imaging methods encountered in diagnosis of orthopedic disorders. Describe and explain indications for each diagnostic method. Correlate results of diagnostic imaging with clinical examination

L4. Tissues of musculosceletal system

Acquiring knowledge about tissues comprising musculosceletal system

L5. Normal bone healing

Understanding mechanism of normal bone healing

L6. Impaired bone healing

Understanding causes of bone healing impairment

L7. Bone remodelling and endocrine disorders of skeletal system

Describe and explain mechanism of endocrine regulation of bone remodelling Acquiring knowledge about endocrine bone disorders

L8.Metabolic disorders of skeletal system

Get acquinted with major metabolic disorders of skeletal system

L9., L10. Infections of musculoskeletal system

Recognize and explain causes of infection of musculoskeletal system Know how to diagnose and treat bone infection

L9., L10. Infections of musculoskeletal system

Recognize and explain causes of infection of musculoskeletal system Know how to diagnose and treat bone infection

L11., L12. Degenerative disorders of musculoskeletal system

Describe and explain mechanism of musculoskeletal system degeneration Recognize and determine diagnostics and therapy in degenerative disorders of musculoskeletal system

L13. Children's orthopedics: immature skeleton

Get acquinted with immature skeleton and its specificity. Distinguish pediatric from adult musculoskeletal system

L14. Children's orthopedics:the hip

Describe and explain causes of pediatric hip disorders .Recognize and determine diagnostics and therapy of pediatric hip disorders

L15. Children's orthopedics:the foot

Describe and explain causes of pediatric foot disorders. Recognize and determine diagnostics and therapy protocol of pediatric foot disorders

L16.,L17. The neck and pectoral girdle disorders

Get acquinted with major disorders of neck and pectoral girdle. Learn how to diagnose and treat neck and pectoral girdle disorders

L18., L19. The shoulder and upper arm

Acquiring knowledge about shoulder and upper arm disorders. Recognize and determine diagnostics and therapy in shoulder and upper arm disorders.

L20. i L21. The elbow and forearm

Determine diagnostic and treatment protocol of elbow and forearm disorders

L22. The wrist and the hand

Get aquainted with major disorders affecting wrist and the hand. Selecting appropriate diagnostic and treatment method to solve disorder of wrist and the hand

L23., L24. The hip and upper leg

Recognize disorders of hip and upper leg. Determine diagnostics and therapy in hip and upper leg disorders

L25.,L26 The knee and lower leg

Describe knee and lower leg disorders. Determine diagnostic and treatment method for specific knee and lower leg disorder

L27.,L28. The foot and ankle

Recognize foot and ankle disorders. Determine appropriate diagnostic and treatment method in foot and ankle disorders

L29.,L30 Tumors of musculoskeletal system

Describe tumors of musculoskeletal system. Recognize and diagnose tumors of musculoskeletal system .Get acquinted with treatment options for musculoskeletal tumors.

Vježbe popis (s naslovima i pojašnjenjem):

Practicals 1-5. History and clinical examination of the spine

Following theoretical part apply practical knowledge of taking history and clinical examination of the spine

Practicals 6-10. History and clinical examination of the hip and upper leg

Following theoretical part apply practical knowledge of taking history and clinical examination of the hip and upper leg

Practical 11-15. History and clinical examination of the knee and lower leg

Following theoretical part apply practical knowledge of taking history and clinical examination of the knee and lower leg

Practical 16-20. History and clinical examination of the foot and ankle

Following theoretical part apply practical knowledge of taking history and clinical examination of the foot and ankle

Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm

Following theoretical part apply practical knowledge of taking history and clinical examination of the shoulder, upper arm, elbow and lower arm

Practical 26-32. History and clinical examination of the wrist and the hand

Following theoretical part apply practical knowledge of taking history and clinical examination of the wrist and the hand

Obveze studenata:

Attendance on lectures and practicals are mandatory. Communication between the teaching stuff and students will take place by e-mail addresses (@uniri.hr)

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

Student assessment is carried out in accordance with the current University of Rijeka Study Regulations and the Student Regulations at the Faculty of Medicine Rijeka (adopted by the Faculty Council of the Faculty of Medicine Rijeka). Students' performance will be evaluated during the course and at the final exam. Out of a total of 100 credits, a student can earn 50 credits (50%) during the course, and 50 credits (50%) at the final exam. Student assessment is performed using ECTS (A-E) and number system (1-5). Student assessments in ECTS system is carried out by is performed by absolute distribution, and according to graduate assessment criteria. Out of a total of 50 credits that can be earned during the course, student must earn minimum 25 credits to take final exam.

I. During the course (maximum 50 credits):

Obligatory colloquium I and II test (maximum up to 25+25 credits) During the course all students must take obligatory first colloquium earning maximum 25 credits (range 13-25 maximum). During course all students must take second obligatory colloquium aswell earning maximum 25 credits (range 13-25)

grade	credits
sufficient	13-15
good	16-19
very good	20-23
excellent	24-25

II. Final exam (maximum 50 credits):

Final exam consists of obligatory written exam on Merlin platform in the form of essay. Student who earn 25 or more credits during the course can take final exam. Student who earn less than 25 credits during the course cannot take final exam. Final exam is scored maximal up to 50 credits. Final exam consists of 5 questions and brings 50 credits (range 25-50). To earn the credits student must pass 50% of final test. Correct answers are converted in credits by the following criteria:

grade	credits
sufficient	13-15
good	16-19
very good	20-23
excellent	24-25

For a passing grade during classes and on the final exam, student has to obtain minimum of 50 credits.

The ECTS grading system is defined by the following criteria: A - 90 -100% credits B - 80 - 89,9% credits C - 70 - 79,9% credits D - 60 - 69,9% credits E - 50 - 59,9% credits Grades in ECTS grading system are converted in numerical system by the following criteria: A = excellent (5) B = very good (4) C = good (3) D = sufficient (2) E = insufficient (1)

Ostale napomene (vezane uz kolegij) važne za studente:

Course content and all information related to the course as well as exam dates can be found on the MedRi web pages. All student inquiries, regarding the course and possible problems, remarks and inquiries are provided exclusively using the official e-mail addresses (@medri.uniri.hr). It is possible to arrange consultations with the teaching staff during working hours.

SATNICA IZVOĐENJA NASTAVE 2023/2024

Orthopaedics

Predavanja (mjesto i vrijeme / grupa)	Vježbe (mjesto i vrijeme / grupa)
12.07.2023	(injesto i viljeme / grupa)
 L29.,L30 Tumors of musculoskeletal system: Ortopedija - Lovran (18:00 - 20:00) ^[305] 0_393 	
doc. dr. sc. Prpić Tomislav, dr. med. ^[305]	
26.02.2024	
 L1. Introduction and history of orthopedics: ONLINE (08:00 - 08:45) ^[304] O_393 L2. History, clinical examination, types of orthopaedic operations: Ortopedija - Lovran (08:45 - 09:30) ^[304] O_393 L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging): 	
 ONLINE (09:30 - 10:15) ^[305] o O_393 L4. Tissues of musculosceletal system: ONLINE (10:15 - 11:00) ^[305] o O_393 	
 L5. Normal bone healing: Ortopedija - Lovran (11:00 - 11:45) ^[301] 0_393 	
nasl. doc. dr. sc. Mađarević Tomislav, dr. med. $^{[301]}\cdot$ doc. dr. sc. Prpić Tomislav	ν, dr. med. ^[305] · prof. dr. sc. Šantić Veljko, dr. med. ^[304]
27.02.2024	
	 Practicals 1-5. History and clinical examination of the spine: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS B1 ORTHOPAEDICS B2
naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent Tudor Karlo, dr.	med. ^[1950]

28.02.2024

L6. Impaired bone healing: • ONLINE (13:00 - 14:00) ^[300] • O_393	
 L7. Bone remodelling and endocrine disorders of skeletal system: ONLINE (14:00 - 15:00) ^[301] O_393 	
 L8.Metabolic disorders of skeletal system: ONLINE (15:00 - 16:00) ^[305] O_393 	
 L9., L10. Infections of musculoskeletal system: ONLINE (16:00 - 18:00) ^[301] O_393 	
nasl.doc. dr. sc. Gržalja Nikola, dr. med. ^[300] · nasl. doc. dr. sc. Mađarević To [305]	mislav, dr. med. ^[301] · doc. dr. sc. Prpić Tomislav, dr. med.
29.02.2024	
	 Practicals 1-5. History and clinical examination of the spine: Ortopedija - Lovran (08:00 - 11:45) ^[1950] [1429] ORTHOPAEDICS B1 ORTHOPAEDICS B2 ORTHOPAEDICS C1 Practicals 6-10. History and clinical examination of the hip and upper leg: Ortopedija - Lovran (08:00 - 11:45) ^[1950] [1429] ORTHOPAEDICS B1 ORTHOPAEDICS B1 ORTHOPAEDICS B1 ORTHOPAEDICS B1 ORTHOPAEDICS C1
naslovni asistent Gulan Leo, dr. med. $^{[1429]}\cdot$ naslovni asistent Tudor Karlo, di	r. med. ^[1950]
01.03.2024	
 L11., L12. Degenerative disorders of musculoskeletal system: ONLINE (16:00 - 18:00) ^[299] O_393 	
 L13. Children's orthopedics: immature skeleton: ONLINE (18:00 - 19:00) ^[305] 	

○ 0_393

L14. Children's orthopedics:the hip: • ONLINE (18:00 - 19:00) ^[305]

• O_393

L15. Children's orthopedics:the foot: • ONLINE (19:00 - 20:00) ^[305]

○ O_393

nasl. izv. prof. dr. sc. Legović Dalen, dr. med. ^[299] · doc. dr. sc. Prpić Tomislav, dr. med. ^[305]

04.03.2024

Practicals 6-10. History and clinical examination of the hip and upper leg:

- Ortopedija (08:00 11:45) [1429] [1950]
 - ORTHOPAEDICS A1
 - ORTHOPAEDICS A2
 - ORTHOPAEDICS C1

naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent Tudor Karlo, dr. med. ^[1950]

05.03.2024	
 L16.,L17. The neck and pectoral girdle disorders: ONLINE (12:00 - 14:00) ^[305] 	
○ O_393	
L18., L19. The shoulder and upper arm: • ONLINE (14:00 - 16:00) ^[305] ○ 0_393	
 L20. i L21. The elbow and forearm: ONLINE (16:00 - 17:00) ^[305] 0_393 	
doc. dr. sc. Prpić Tomislav, dr. med. ^[305]	
06.03.2024	
	 Practical 11-15. History and clinical examination of the knee and lower leg: Ortopedija - Lovran (08:00 - 11:45) ^[1950] [1429] ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS B1 ORTHOPAEDICS B2
naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent ⁻	Tudor Karlo, dr. med. ^[1950]
07.03.2024	
L20. i L21. The elbow and forearm: • ONLINE (16:00 - 17:00) ^[305] • 0_393	
L22. The wrist and the hand: • ONLINE (17:00 - 18:00) ^[302] • O_393	
 L23., L24. The hip and upper leg: ONLINE (18:00 - 20:00) ^[305] O_393 	
 L25.,L26 The knee and lower leg: ONLINE (19:00 - 20:00) ^[303] O_393 	
prof. dr. sc. Gulan Gordan, dr. med. ^[303] · izv. prof. dr. sc. lotar	nović Zdravko, dr. med. ^[302] · doc. dr. sc. Prpić Tomislav, dr. med. ^[305]
08.03.2024	
	Practical 11-15. History and clinical examination of the knee and lower leg: • Ortopedija (08:00 - 11:45) ^[1429] ^[1950] • ORTHOPAEDICS B1 • ORTHOPAEDICS B2 • ORTHOPAEDICS C1 Practical 16-20. History and clinical examination of
	 the foot and ankle: Ortopedija (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS B1 ORTHOPAEDICS B2 ORTHOPAEDICS C1
naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent [·]	Tudor Karlo, dr. med. ^[1950]

11.03.2024

	 Practical 16-20. History and clinical examination of the foot and ankle: Ortopedija - Lovran (08:00 - 11:45) ^{[1950] [1429]} ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS C1 		
naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent Tudor Karlo, dr. med. ^[1950]			
12.03.2024			
L25.,L26 The knee and lower leg: • ONLINE (16:00 - 17:00) ^[303] • O_393 L27.,L28. The foot and ankle: • ONLINE (17:00 - 18:00) ^[304] • O_393			
prof. dr. sc. Gulan Gordan, dr. med. ^[303] · prof. dr. sc. Šantić Veljko	o, dr. med. ^[304]		
13.03.2024			
 L22. The wrist and the hand: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS B1 ORTHOPAEDICS B2 L23., L24. The hip and upper leg: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS B2 L25.,L26 The knee and lower leg: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS B2 L25.,L26 The knee and lower leg: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS A1 ORTHOPAEDICS B2 L27.,L28. The foot and ankle: Ortopedija - Lovran (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS B2 	Practical 21-25. History and clinical examination o the shoulder, upper arm, elbow and lower arm: • Ortopedija (08:00 - 11:45) ^[1950] [^{1429]} • ORTHOPAEDICS B1 • ORTHOPAEDICS B2 • ORTHOPAEDICS C1		
naslovni asistent Gulan Leo, dr. med. ^[1429] · naslovni asistent Tudo 15.03.2024	or Karlo, dr. med. [1950]		
	 Practical 26-32. History and clinical examination of the wrist and the hand: Ortopedija (08:00 - 11:45) ^[1429] ^[1950] ORTHOPAEDICS A1 ORTHOPAEDICS A2 ORTHOPAEDICS C1 		

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
L1. Introduction and history of orthopedics	1	ONLINE
L2. History, clinical examination, types of orthopaedic operations	1	Ortopedija - Lovran
L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging)	1	ONLINE
L4. Tissues of musculosceletal system	1	ONLINE
L5. Normal bone healing	1	Ortopedija - Lovran
L6. Impaired bone healing	1	ONLINE
L7. Bone remodelling and endocrine disorders of skeletal system	1	ONLINE
L8.Metabolic disorders of skeletal system	1	ONLINE
L9., L10. Infections of musculoskeletal system	1	ONLINE
L9., L10. Infections of musculoskeletal system	2	
L11., L12. Degenerative disorders of musculoskeletal system	2	ONLINE
L13. Children's orthopedics: immature skeleton	1	ONLINE
L14. Children's orthopedics:the hip	1	ONLINE
L15. Children's orthopedics:the foot	1	ONLINE
L16.,L17. The neck and pectoral girdle disorders	2	ONLINE
L18., L19. The shoulder and upper arm	2	ONLINE
L20. i L21. The elbow and forearm	2	ONLINE
L22. The wrist and the hand	1	ONLINE Ortopedija - Lovran
L23., L24. The hip and upper leg	2	ONLINE Ortopedija - Lovran
L25.,L26 The knee and lower leg	2	ONLINE Ortopedija - Lovran
L27.,L28. The foot and ankle	2	ONLINE Ortopedija - Lovran
L29.,L30 Tumors of musculoskeletal system	2	Ortopedija - Lovran

VJEŽBE (TEMA)	Broj sati	Mjesto održavanja
Practicals 1-5. History and clinical examination of the spine	5	Ortopedija - Lovran
Practicals 6-10. History and clinical examination of the hip and upper leg	6	Ortopedija Ortopedija - Lovran
Practical 11-15. History and clinical examination of the knee and lower leg	6	Ortopedija Ortopedija - Lovran
Practical 16-20. History and clinical examination of the foot and ankle	5	Ortopedija Ortopedija - Lovran
Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm	5	Ortopedija
Practical 26-32. History and clinical examination of the wrist and the hand	5	Ortopedija

ISPITNI TERMINI (završni ispit):

1.	18.03.2024.
2.	05.09.2024.
3.	19.09.2024.