

COURSE UNIT INFORMATION FORM

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Subject code: J-S-VL-570	Name of the subject: Ortopedics
Form, extent and method of teaching activities: Lecture/Practical Extent (in hours) – per week: 1/1,5 Method - attendance form	
Number of credits: 2 credits	
Recommended semester/trimester of study: 10 th semester	
Level of study: joint 1 st and 2 nd level (MUDr.)	
Prerequisites: Surgical propedeutics	
Subject completion requirements: 100% participation in practical exercises with the possibility of one excused absence is required. Replacement of missing practical exercises is possible up to 20% of the total number, with the consent of the head of the department (in accordance with the Study Regulations and the regulation of the Dean of Jessenius Faculty of Medicine Comenius University in Martin). For each unjustified non-participation, it is necessary to prepare a paper on a given topic in the range of 1500 words. Lectures are available in storage of Jessenius Faculty of Medicine . The final evaluation will consist of the final grade, which is calculated as the arithmetic average of the grades for the practical exam (patient examination and medical examination), for the test and for the final oral exam (2 questions). Evaluation of the test: A: 91-100 %, B: 81-90 %, C: 73-80 %, D: 66-72 %, E: 60-65 %, Fx: less than 60 %	
Learning outcomes: Students gain an overview of diseases and injuries of the musculoskeletal system. Become familiar with developmental and acquired diseases, specificities of developmental diseases, their diagnosis and treatment options, focusing on prevention and screening examinations, become familiar with therapeutical options of skeletal trauma, can separately consider the possible therapeutic approaches based on the interpretation of X-ray findings. Acquire basic algorithms of treatment of acute skeletal trauma. After completing the course student is able to diagnose basic degenerative diseases of the skeleton and suggest possible treatment. Has a complete overview of the current state of knowledge and surgical treatment options, as well of reconstructive and acute orthopedics.	
Brief syllabus: - Introduction to clinical examination of the musculoskeletal system, basic inspection, manual examination and special examination methods. - Principles of conservative treatment - neurophysiological effects, physiotherapy, occupational therapy, ortho-prosthetics. - Principles of surgical treatment. - Pathophysiology of fractures and soft tissue injuries, therapeutic procedures and principles of treatment. - Diagnosis and treatment of bone tumours, tumours of muscles and tendons by anatomical site. - Diagnosis and treatment of congenital and acquired diseases of skeletal system. - Diagnosis and treatment of diseases of the upper limb, including damage to muscles, tendons and fractures. - Diagnosis and treatment of pelvic fractures and diseases - congenital dysplasia (DDH), conservative and surgical treatment. - Diagnosis and treatment of diseases of the lower limb, including damage to muscles, tendons and fractures. - Basic principles of arthroplasty. - Congenital deformities of the spine and rib cage, their diagnosis and treatment. - Degenerative diseases of the spine, diagnosis - possibilities of conservative and surgical treatment. - Diagnosis and treatment of diseases of the musculoskeletal system in children. - Orthopedic diseases of senile age, treatment options.	

Recommended literature:

Essential Orthopaedics and Trauma, 5th Edition, David J. Dandy and Dennis J. Edwards, Imprint: Churchill Livingstone, ISBN: 978-0-443-06718-, Copyright: 200, 504 Pages
Review of Orthopaedics, 6th Edition, Mark D. Miller, Stephen R. Thompson and Jennifer Hart, Reference Imprint: Saunders, ISBN: 978-1-4377-2024-2, Copyright: 2012, 896 Pages
Handbook of Fractures, Kenneth A. Egol, Kenneth J. Koval, Joseph David Zuckerman, Philadelphia: Lippincott Williams & Wilkins, 2006. ISBN: 0-7817-9009-, 3 Pp. 685
Oxford Handbook of Orthopaedics and Trauma, Gavin Bowden, Martin McNally, Simon Thomas, and Alexander Gibson, ISBN: 978-0-19-856958-9, 02 September 2010, 656 pages,
AO Foundation Surgery Reference
Rockwood and Green's Fractures in Adults 7th Edition, Robert W. Bucholz, Charles M. Court-Brown, James D. Heckman, Paul Tornetta III, Lippincott Williams & Wilkins, 2010. ISBN 978-1-60547-677-3
Campbells Operative Orthopaedics, 13th Edition, Frederick M. Azar, James H. Beaty, S. Terry Canale, Elsevier, 2017. ISBN: 978-0-323-37462-0

Language of instruction needed for subject completion: English language**Notes:** ---**Assessment of subjects**

Teachers: MUDr. Zoltán Cibula, PhD., MHA, Doc. MUDr. Maroš Hrubina, PhD., MUDr. Marián Melišík, PhD., MUDr. Stanislav Křivánek, PhD., MUDr. Marek Rovňák, PhD., MUDr. Martin Feranec, PhD., MUDr. Jozef Almási, PHD., MPH., MUDr. Peter Lisý, MUDr. Jozef Holjenčík

Date of the last modification: 9.9.2024**Approved by:** MUDr. Zoltán Cibula, PhD., MHA.