



48SJ-OWT
ECTS: 3,5
YEAR: 2023L

ORTHOPEDICS WITH TRAUMATOLOGY
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COURSE CONTENT
CLASSES

Features of the construction of the bone joint and muscular. Familiarization with the principles of orthopedic research. The principles of diagnosis and treatment of injuries of the bone joint. The classification of fractures. Scale open fractures Gustilo Anderson. The specificity of fracture healing Basics of osteosynthesis. Complications of fractures: pseudoarthrosis and delayed union, necrosis, infections, compartment syndrome Damage to the rim of the upper limb. Fracture of shoulder and clavicle, sterno-clavicular joint dislocation and clavicle-houlder, shoulder joint dislocation, fracture of the neck and shaft of the humerus. Supracondylar fracture of the humerus. Condylar fracture of the humerus. Dislocation of the elbow. Dislocation of the radial head. Fracture of the olecranon. Fracture of vertebral bones of the forearm. Breaking and exfoliation of the distal radius. Fracture of the wrist. Metacarpal fracture and fingers. Damage to the open hand, principles of diagnosis and treatment. Upper limb replantation. Damage to the rim of the lower limb. Fractures of the pelvis. Traumatic dislocation of the hip. Fracture of the femoral neck. Transdermal and subtrochanteric fracture of the femur. Fracture of the femoral shaft. Supracondylar fracture of the femur. Dislocation and fracture of the patella. Dislocation of the knee. Damage to the ligaments of the knee and other radionegatywne damage. Intra-articular fractures of the knee. Fractures of the shin bone. Ankle fracture ankle. Traumatic feet. Ankle sprain. Damage to nerves and blood upper and lower limb. Degeneration and degenerative arthritis of the hip and knee – practical diagnosis and treatment analysis

LECTURES

The history and evolution of the global and Polish orthopedics and traumatology. Osteoarthritis: etiology, epidemiology, pathogenesis, clinical symptoms, diagnostic imaging, treatments. Osteoarthritis of the hip - etiology, epidemiology, pathogenesis, clinical symptoms, diagnostic imaging, differential diagnosis, treatments. Total hip - indications, types, outcomes, complications. Osteoarthritis of the knee - etiology, epidemiology, pathogenesis, clinical symptoms, diagnostic imaging, differential diagnosis, treatments. THR knee one, two and trójprzędziałowa - indications, types, outcomes, complications. Congenital dislocation of the hip - etiology, epidemiology, diagnosis, methods of prevention and treatment, possible complications. Perthes disease and juvenile peel off the head of the udowej- etiology, epidemiology, diagnosis, prevention and treatment methods. Torticollis. Clubfoot Clubfoot - etiology, epidemiology, diagnosis, prevention and treatment methods. Cerebral palsy - orthopedic treatment options. Foot deformities in adults - hallux valgus, flat-valgus foot static - diagnosis, prevention and treatment. Diseases shoulder - modern methods of diagnosis and treatment. Non-traumatic pathology of the knee - systematics, diagnostics, treatment. Hand and wrist disease - etiology, diagnosis treatment. Primary and metastatic tumors of the musculoskeletal system - diagnosis, differential diagnosis, current methods of treatment. Orthopedics and Traumatology in geriatrics - overview of issues, principles of prevention and treatment. Osteoporosis - the definition of the phenomenon, epidemiology, review treatment options. Orthopedics and traumatology in sport and physical activity overview of the issues, principles of prevention and treatment. Enthesopathies upper limb and lower - definitions, etiology, epidemiology, diagnosis, prevention and treatment. Tendon rupture with particular emphasis on the Achilles tendon. Back pain - diagnosis, prevention and treatment. Scoliosis - types, recognition. Methods of prevention, surgical and

EDUCATIONAL OBJECTIVE:

Getting Acquainted with orthopedics as a field of medical science dealing with the m. AI. congenital and acquired osteoarticular system, osteo-arthritic disease, musculoskeletal tumors, osteoporosis, musculoskeletal injuries, multi-organ injuries.

DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES

Codes of learning outcomes in a major field of study: M/NM+++,

Codes of learning outcomes in a major area of study: F.U8.+ , F.W1.+ , K.1.+ , K.2.+ , K.3.+ , K.5+ ,

LEARNING OUTCOMES:

Knowledge

W1 - (F.W1) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of childhood, including in particular: - bone fractures and organ trauma;

Skills

U1 - (F.U8) Is able to perform temporary immobilization of the limb, choose the type of immobilization necessary for use in typical clinical situations and control the correct blood supply to the limb after applying the immobilizing dressing.

Social competence

K1 - (K.1) Can establish and maintain a deep and respectful contact with the patient and demonstrate understanding of differences in worldview and culture.

K2 - (K.2) It is guided by the well-being of the patient.

K3 - (K.3) Obeys the medical confidentiality rule and respects patient rights.

K4 - (K.5) Notices and recognises its own limitations and makes a self-assessment of deficits and educational needs.

Course/module:

Orthopedics with Traumatology

Fields of education:

Course status: mandatory

Course group: B - przedmioty kierunkowe

ECTS code:

Field of study: Medicine

Specialty area: Medicine

Educational profile: General academic

Form of study: full-time

Level of study: uniform master's studies

Year/semester: 4 / 8

Type of course:

Classes, Seminar, Lecture

Number of hours per semester/week: Classes: 30, Seminar: 10, Lecture: 10

Teaching forms and methods

Classes(K1, K2, K3, K4, U1, W1) : Exercises examination, conducted in the form of discussing specific issues and disease entities. Prepared the student is introduced to the subject, is obliged under the supervision leading to examine a patient, propose diagnostic tests, interpretation, diagnosis and propose a treatment plan., Seminar(K1, K2, K3, K4, U1, W1) : Talk seminar - after a comprehensive introduction to the subject by the teacher uttered are the opinions of students, which are then summarized by the teacher. The group then evaluates the expression and introduces comments and additions. Teacher sums up the theme. Group speaks requests., Lecture(K1, K2, K3, K4, U1, W1) : presentation

Form and terms of the verification results:

CLASSES: Oral test - Evaluation of the work and cooperation in the group - Evaluation of the work during exercise(K1, K2, K3, K4, U1, W1) ; SEMINAR: Presentation - presence and presentation(K1, K2, K3, K4, U1, W1) ; LECTURE: Oral exam - The course ends with an exam. Presence.(K1, K2, K3, K4, U1, W1)

Number of ECTS points: 3,5

Language of instruction: English

Introductory courses:

Anatomy, Physiology

Preliminary requirements:

basic information, including the construction of man and human physiology

Name of the organizational unit offering the course:

Katedra Rehabilitacji i Ortopedii,

Person in charge of the course:

dr hab. n. med. Janusz Płomiński, prof. UWM

Course coordinators:

Notes:

BASIC LITERATURE

5) Dandy J.D., Edwards D.J., Essential Orthopaedics and Trauma: with student consult, wyd. Elsevier, 2009 ; 6) Natarajan M.V., Natarajan's textbook of Orthopaedics and Traumatology 8th edition, wyd. Wolters Kluwer, 2018 ; 7) Dandy J.D., Essential Orthopaedics and Trauma 2, wyd. Churchill Livingstone, 1993

SUPPLEMENTARY LITERATURE

1) Gaździk (red), Testy kliniczne w badaniu kości, stawów i mięśni, wyd. PZWL, 2007

Detailed description of the awarded ECTS points - part B

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ORTHOPEDECS WITH TRAUMATOLOGY **ORTHOPEDECS WITH TRAUMATOLOGY**

The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	30 h.
- participation in: seminar	10 h.
- participation in: lecture	10 h.
- consultation	5 h.
	55 h.

2. Student's independent work:

-	12,5 h.
- preparing for classes	10 h.
- preparing for exam	10 h.
	32,5 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 87,5 h : 25 h/ECTS = 3,50 ECTS
on average: **3,5 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	2,20 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	1,30 ECTS points,