Speciality "Traumatology and Orthopedics"

ACADEMIC DISCIPLINE "TRAUMATOLOGY AND ORTHOPEDICS"
SURGICAL MODULE 3

Academic discipline outline	Etiology, pathogenesis, mechanisms of injury, clinical manifestations, methods of clinical, radiological, laboratory, radioisotope, ultrasound, morphological diagnostics, computed tomography, magnetic resonance imaging, differential diagnosis, comprehensive conservative and surgical treatment, prevention of congenital and acquired diseases and injuries of the musculoskeletal system, and patient rehabilitation.
Resulting skills	Specialized competence. To conduct diagnostics and provide primary and specialized medical care for surgical diseases and injuries.
Learning outcomes	A student must: **know:** the etiology, pathogenesis, classification, and clinical presentation of orthopedic diseases and typical injuries of the musculoskeletal system in children and adults during both peacetime and wartime modern methods of diagnosis, conservative and surgical treatment of musculoskeletal system diseases the scope of primary, emergency, and specialized medical care for musculoskeletal injuries methods of diagnosis and treatment in cases of multiple, combined, and associated trauma methods of prevention of musculoskeletal diseases and injuries in children and adults types of trauma (occupational, domestic, pediatric, etc.), their characteristics, and methods of prevention the frequency, causes, and socio-economic problems associated with musculoskeletal injuries and diseases principles of medical rehabilitation for patients with polytrauma and orthopedic diseases rules of medical ethics and deontology; **be able to:** identify the mechanism of injury and recognize typical musculoskeletal injuries examine patients with musculoskeletal injuries and diseases diagnose typical skeletal injuries provide emergency medical care for musculoskeletal trauma

	temporarily stop external bleeding and apply a dressing in cases of open fractures perform transport immobilization for musculoskeletal injuries carry out a novocaine blockade at the fracture site treat fractures using conservative methods identify common congenital diseases and deformities of the musculoskeletal system and issue referrals for consultation in specialized healthcare institutions; **master:** methods of clinical examination of the musculoskeletal system methods of diagnosing soft tissue injuries, fractures, dislocations, and techniques of providing primary medical care, including for children methods of diagnosing senile and pathological fractures and techniques of providing primary medical care techniques for examining patients with multiple and combined injuries methods for determining the severity of a patient's condition with polytrauma methods for identifying dominant injuries in cases of multiple and combined trauma techniques of providing emergency medical care in polytrauma (typical novocaine blockades, transport immobilization, temporary bleeding control, transfusion of blood substitutes, inhalation of oxygen–nitrous oxide mixtures) principles of selecting the appropriate site for further treatment of patients with multiple, combined, and complex injuries techniques for developing a plan of measures for the prevention and treatment of possible complications (acute renal failure, thromboembolism, fat embolism, wound infection, osteomyelitis, etc.) in the early stages after polytrauma methods of diagnosing injuries, degenerative, inflammatory, and metabolic joint diseases techniques for developing treatment plans and methods of conservative treatment for patients with arthrosis, as well as methods for identifying patients with arthrosis requiring inpatient treatment methods of diagnosing, based on clinical signs, typical congenital musculoskeletal diseases and deformities in children: torticollis, chest deformities, congenital hip dislocation, scoliosis, foot deformities

	techniques for determining indications for referring patients to rehabilitation treatment.
Semester(s)	9,10 semesters 11/12 semester - the sub-residency profile is “General Medical Practice”.
Prerequisite	Propaedeutics of Internal Diseases**.** Public Health and Hygiene**.** Surgical Diseases**.** Radiology and Radiation Therapy**.** Topographic Anatomy and Operative Surgery**.** Urology**.** Neurology and Neurosurgery**.** Oncology. Military Field Surgery.
Credit value	6 credits
Academic hours	160 academic hours, of which: 74 class hours The sub-residency profile is “General Medical Practice”: 120 academic hours, of which 80 class hours
Forms of midterm attestation	Credit Examination