Speciality "General Medicine"

ACADEMIC DISCIPLINE "GENERAL SURGERY"
SURGICAL MODULE 1

Academic discipline outline	Examination methods in surgery. Aetiology, pathogenesis, clinical presentation, diagnosis, treatment of surgical diseases.
Resulting skills	Specialized skills. To use knowledge of clinical symptomatology, to master patient examination methods, diagnostics and differential diagnostics, principles of treatment and prevention, to formulate a clinical diagnosis in major surgical diseases.
Learning outcomes	A student must **know:** basics of asepsis and antisepsis; methods of disinfection and sterilization; methods of hand treatment; main types of surgical operations; rules for preparing the patient and surgical field for surgery; rules for working in the operating room; signs of traumatic injuries; symptoms of bleeding; indications and contraindications for transfusion of blood products, blood substitutes; blood transfusion complications; fundamentals of general and local anesthesia, resuscitation; principles of diagnosis and treatment of surgical infection; patterns of the wound process, types of healing and principles of wound treatment, rules for dressing; fundamentals of oncology, transplantology, plastic surgery; treatment of parasitic diseases and malformations; clinical features and treatment of collapse, fainting and shock; clinical features and treatment of purulent surgical infection; treatment and prevention of specific surgical infection; rules of medical ethics and deontology; **be able to:** apply basic and additional examination methods to establish a clinical diagnosis and determine surgical tactics; perform pre-sterilization preparation of surgical instruments and pack the surgical box; administer various types of local anesthesia using modern anesthetics;

	perform intradermal, subcutaneous, and intramuscular injections; determine the patient's blood type; prepare a transfusion system for blood products and blood substitutes, and conduct individual compatibility tests before blood transfusion; perform primary and secondary surgical wound debridement, incision of subcutaneous phlegmon, and abscesses; perform basic cardiopulmonary resuscitation; perform transport immobilization for various types and locations of fractures; stop bleeding using a medical tourniquet, a twist tourniquet, or finger pressure; provide first aid for trauma and thermal injuries; catheterize the bladder in men and women with "soft" catheters; **master:** hand preparation techniques for surgical interventions according to EN-1500; donning sterile gowns before surgery; methods for preparing the surgical field; methods for operating the operating lamp and table; techniques for opening and delivering sterile material during surgery; methods for preparing dressings for surgery; methods for applying various types and kinds of dressings; methods and techniques for temporarily stopping bleeding.
Semester(s)	4,5,6 semesters
Prerequisite	Medical and biological physics. Medical biology and general genetics. Latin language. Human anatomy. Histology, cytology, embryology. Normal physiology. Pathological physiology. Microbiology, virology, immunology. Basics of patient care.
Credit value	9 credits
Academic hours	336 academic hours, of which: 176 class hours
Forms of midterm attestation	Test Examination