Speciality "General Medicine"

ACADEMIC DISCIPLINE "ANESTHESIOLOGY AND REANIMATOLOGY"
SURGICAL MODULE 2

Academic discipline outline	Organization of anesthesiology and intensive care services. Types and methods of anesthesia (general and regional). Indications, contraindications, and complications of anesthesia and sedation. Diagnosis and emergency care for critical conditions. Regulation and correction of hemodynamic, respiratory, and metabolic disorders in terminal and critical states. Infusion therapy programs and parenteral nutrition. Assessment and correction of water-electrolyte balance and acid-base status. Principles of treatment of acute poisoning with drugs and toxic substances. Cardiopulmonary resuscitation: indications, criteria for termination, and basic and advanced life support techniques.
Resulting skills	Specialized skills. To provide general and local anaesthesia, intensive care for critical conditions, and cardiopulmonary resuscitation in terminal states; to apply emergency medical care based on pathophysiological and pharmacological principles.
Learning outcomes	A student must **know:** types and methods of anesthesia, indications, contraindications, and complications; methods for diagnosing and managing critical conditions; principles of regulation and correction of hemodynamic, respiratory, and metabolic disorders in terminal and critical states; fundamentals of infusion therapy and parenteral nutrition; methods for assessing and correcting water-electrolyte and acid-base disorders; principles of treating acute poisoning with drugs and toxic substances; indications for mechanical ventilation and resuscitation, criteria for terminating resuscitation; **be able to:** relieve pain syndrome; measure central venous pressure (CVP); assess and correct deficits of water, electrolytes, proteins, carbohydrates, acid-base status, hemoglobin, and hematocrit; determine indications for mechanical ventilation; determine indications for resuscitation and its termination criteria;

	master: techniques of cardiopulmonary resuscitation using closed chest compressions, simple mechanical ventilation methods (mouth-to-mouth, mouth-to-nose, Ambu bag via face mask), and intravascular drug administration.
Semester(s)	7, 8 semesters 11/12 semester - the sub-residency profile is “General Medical Practice”.
Prerequisite	Biological chemistry (metabolism, bioenergetics, biochemistry of nutrition, organs and tissues). Human anatomy (body structure, organ topography, anatomical relationships). Pathological anatomy (morphogenesis, classification, structural changes in diseases). Normal physiology (functioning of cells, tissues, organs, regulatory mechanisms, normal parameters). Pathological physiology (typical pathological processes, compensation mechanisms, principles of correction). Pharmacology (pharmacodynamics, pharmacokinetics, major therapeutic agents).
Credit value	6 credits
Academic hours	144 academic hours, of which: 96 class hours The sub-residency profile is “General Medical Practice”: 106 academic hours, of which 70 class hours
Forms of midterm attestation	Credit Examination