

COURSE "SURGERY"

practical classes - 70 hours

Lecturer - Candidate of Medical Sciences, Dozent Lukavenko IM

The aim is to acquire theoretical knowledge and practical skills in etiology, pathogenesis, typical clinical manifestations, modern diagnostic methods, conservative and surgical treatment, rehabilitation of patients with surgical pathology within the limits appropriate to the training of a general practitioner.

The student must know:

1. Basic principles and stages of organization of surgical care.
2. Etiological and pathogenetic factors of surgical diseases specified in the subject study program.
3. Classification of the most common surgical diseases of the chest.
4. Clinical symptoms and syndromes in the clinic of surgical diseases.
5. Typical clinical picture of the most common complications of surgical diseases.
6. Methods of diagnostic manipulations in urgent thoracic and cardiovascular surgery.
7. Properties, pharmacokinetics and pharmacodynamics of the most common drugs used in the treatment of thoracic surgical pathology and polytrauma.
8. Ethics and deontology of the surgeon and the principles of professional subordination in surgery;
9. Learn to diagnose and determine the severity of the health of the wounded in the abdomen, chest and with polytrauma and provide them with first aid, medical care and emergency measures of qualified surgical care.
10. Master the general principles of surgical care in hostilities and emergencies.

The student must be able to:

1. Collect complaints, anamnesis and objective examination of the surgical patient.
2. Identify clinical symptoms and syndromes of surgical diseases.
3. Establish and justify a preliminary diagnosis.
4. Make a plan of examination and analyze the data of laboratory and instrumental methods of examination in the typical course of the most common surgical diseases.
5. Establish and justify the clinical diagnosis.
6. Define treatment tactics and formulate indications for conservative and surgical treatment.
7. Interpret the general principles of treatment, rehabilitation and prevention of the most common surgical diseases.
8. Diagnose and provide medical care in emergencies in the clinic of surgical diseases.
9. Diagnose and determine the severity of the health of the wounded and affected by the surgical profile.
10. Provide first aid and medical assistance to the wounded in conditions of hostilities and in peacetime emergencies.
11. Demonstrate the ability to perform medical manipulations in emergencies.

Topics of practical classes:

No lesson	Topic	Number of hours
1,2	Practice skills of physical examination of the chest: palpation, percussion, auscultation	4
3	Practice skills to determine the symptoms of pneumothorax and hemothorax	2
4,5	Practice the skills of puncture of the pleural cavity	4
6,7	Plastic surgery in patients with pleural empyema. Rehabilitation of patients	4
8,9	Modern methods of surgical treatment of esophageal pathology.	4
10	Practice skills to determine the symptoms of ardiac pathology	2
11,12	Modern methods of surgical treatment of heart valve pathology	4
13,14	The latest surgical minimally invasive methods for the diagnosis and treatment of coronary heart disease	4
15-17	Surgical anatomy of the breast.	6
18-20	Modern methods of treating patients with breast pathology	6
21-23	Plastic surgery in mammology	6
24-26	Practice practical skills in determining the symptoms of damage to the abdomen and organs and peritonitis	6
27	Practice skills to determine the symptoms of fractures of the ribs and sternum	2
28	Methods for determining the amount of blood loss	2
29,30	Methods of determining the amount of blood loss Infusion therapy in emergency surgery and resuscitation	4
31	Specific and nonspecific prevention of anaerobic infection	2
32	Methods of transport immobilization, skills development	2
33-35	Curation of patients, writing an academic history	6
Total		70

List of literature for preparation for practical classes:

1. Rebecca A. Fisher Kamran Ahmed • Prokar Dasgupta Editors Introduction to Surgery for Students. Springer Book. -2017. – 419 p. <https://doi.org/10.1007/978-3-319-43210-6>
2. Molavi D.W. The Practice of Surgical Pathology A Beginner's Guide to the Diagnostic Process Second Edition. – Baltimore: Maryland . – 2018. – 399 p. <https://doi.org/10.1007/978-3-319-59211-4>
3. Ismail Jatoi, John Benson, Hani Sbitany. Atlas of Breast Surgery. – 2020. – Springer. – 137 p. <https://doi.org/10.1007/978-3-030-45951-2>
4. Edoardo Raposio. Atlas of Endoscopic Plastic Surgery.– 2017.– Springer. – 145 p. <https://doi.org/10.1007/978-3-319-19461-5>

Videos:

<https://www.sgadia.com/programs/surgery-video-lectures?autoplay=true&categoryId=10498>