

Annotation of the working program of the discipline
«Topographic anatomy and operative surgery»
Specialty 31.05.01 General medicine
(Educational program, partially implemented in English)

1. The purpose of the discipline is anatomical and surgical training of students necessary for subsequent studies at clinical departments and in independent medical activity.

2. The place of the discipline in the structure of the Main Professional Educational Program of Higher Education: The discipline «**Topographic anatomy and operative surgery**» refers to the basic part of the Block-1 of the Federal State Educational Standards of Higher Education, specialty 31.05.01 GENERAL MEDICINE (Educational program, partially implemented in English)

3. Requirements for the results of the development of academic discipline:

The process of studying **Topographic anatomy and operative surgery** is aimed at the formation and development of competencies: General Professional Competence-5, General Professional Competence -9

As a result of studying the discipline, students should:

Know:

- layered structure of the human body; topographic anatomy of specific areas; clinical anatomy of the internal organs, tissue spaces, bones and large joints, weak points of the abdominal wall;
- topographic anatomy of neurovascular formations; collateral circulation in violation of the patency of the main blood vessels; areas of motor and sensitive innervation by large nerves;
- the most common malformations, their essence and principles of surgical correction;
- indications, technique for performing emergency surgical interventions with surgical instruments: primary surgical treatment of a wound;
- technique of performing a neck vagosympathetic blockade according to Vishnevsky A.V.; carrying out resection and osteoplastic craniotomy; tracheostomy; appendectomy; simple and radical mastectomy; surgical treatment of purulent mastitis;
- the technique of suturing the penetrating wound of the pleural cavity; wound closure of the heart; wound closure of the abdominal wall, liver seam;
- the essence of the operation, indications, the main stages of more complex emergency and planned surgical interventions: revision of the abdominal organs; resection of the intestine; stomach resection according to the method of Billroth-1, Billroth-2, modified by Hofmeister-Finsterer; Witzel gastrostomy, Stamder-Kader, Toprover; cholecystectomy; splenectomy; nephrectomy; main stages of limb amputation; surgery for impaired ectopic pregnancy.

Be able to:

- use scientific literature;
- use knowledge of topographic anatomy: to substantiate the diagnosis; to select rational access; for the method of surgical intervention; to prevent intraoperative errors and complications caused by age and topographic-anatomical features of the area;
- use general and some special surgical instruments;
- to be guided in topography and details of the structure of organs on anatomical preparations; show, correctly name in Russian and Latin organs and their parts;
- find and isolate the method of preparation of the muscles and fascia, large vessels, nerves, ducts of the glands, individual organs;
- to find and probe on the body of a living person the main bone and muscle landmarks, to apply the projection of the main neurovascular bundles of areas of the human body; correctly name and demonstrate movements in the joints of the human body;
- show organs, their parts and structural details on images obtained by various imaging methods (X-rays, etc.)

- perform separate surgical techniques and operations on biological material:

To master:

- basic technologies for transforming information on human topographic anatomy: independent work with educational literature on paper and electronic media, Internet resources;
- technique of using surgical instruments;
- technique of layer-by-layer preparation of various areas;
- technique of compulsory manual skills:
- knotting techniques: simple, marine, surgical;
- skin suturing technique;
- suturing technique on a wound (wound of a lung, liver, kidney, stomach, intestine);
- stitching technique of the nerve, tendon, blood vessels;
- technique of ligation of blood vessels;
- technique layer-by-layer separation of soft tissues and tissue compounds;
- puncture of the pleural cavity, pericardial cavity, bladder; all joints.

4. The total complexity of the discipline is 5 credit units (180 hours).

5. Semester: 6,7

6. The main sections of the discipline:

1. Introduction.
2. Topographic anatomy and operative torso surgery
3. Topographic anatomy and operative head surgery
4. Topographic anatomy and operative neck surgery
5. Topographic anatomy and operative surgery of the upper limb
6. Topographic anatomy and operative surgery of the lower limb

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