

Abstract of the work program of the discipline

«TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY» The main professional educational program of higher education – specialty programs in the specialty 31.05.01 General medicine, approved on 24.05.2023

The main professional educational program of higher education – specialty programs in the specialty 31.05.01 General medicine, (educational program partially implemented in English)

Form of study: full-time

Term of development The main professional educational program of higher education: 6 year

Department: Human Anatomy with Topographic Anatomy and Operative Surgery.

1. The purpose of the discipline: development of the basics of clinical thinking by studying sections in accordance with the algorithm: topographic anatomy of the region-surgical anatomy of the organ - surgical operation; study of surgical instruments and devices; acquisition of skills of standard (basic) surgical techniques.

2. The place of discipline in the structure the main professional educational program of higher education:

Discipline refers to the disciplines of the mandatory part of Block 1 Federal State Educational Standard of Higher Education specialty 31.05.01 General medicine

3. Requirements for the results of mastering the discipline:

The teaching of this discipline is based on:

- fundamentals of topographic anatomy of the anterior abdominal wall and abdominal cavity, retroperitoneal space, pelvis, chest, neck, limbs;
- principles, techniques and techniques of anesthesia in surgery;
- study of musculoskeletal landmarks of certain areas,
- study of the projection of organs and neurovascular trunks on the surface of the human body;
- study of the location of organs (holotopy);
- study of the location of organs in relation to the skeleton (skeletalotopy),
- study of the location of organs in relation to neighboring anatomical formations (syntopia),
- introduction of operative accesses and operative techniques into clinical surgery
- working out of individual operational techniques
- technical execution of the operation,

The process of studying the discipline is aimed at the formation and development competencies:

Basic professional competence-5 - Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems- ID-3

As a result of studying the discipline, the student must:

To know:

- layered structure of the studied area;
- topographic anatomy of specific areas;
 - collateral circulation of the main blood vessels in violation of patency;
- areas of motor and sensory innervation by large nerves;
- age-related features of the structure, shape and position of organs;
- the most common malformations - their essence and principles of surgical correction;
- indications, technique of performing surgical interventions.

• **Be able to:**

- use the knowledge of topographic anatomy to:
- substantiation of the diagnosis;
- choosing the optimal method of surgical intervention;
- prevention of intraoperative errors and complications, due to the age and topographical features of the region;
- use surgical instruments;
- perform layer-by-layer separation and connection of soft tissues;
- perform separate surgical techniques and operations on biological (educational) material.

Own:

- ⌚ the technique of surgical knots;
- ⌚ skills of working with surgical instruments;
- ⌚ surgical multi-tool skills to the student;
- ⌚ the technique of independent surgical treatment of wounds.

4. Total labor intensity of the discipline: compose 5 credit units (180 ч).

5. Semester: 6,7

6. The main sections of the discipline:

- ⌚ Introduction. The subject and tasks of topographic anatomy and operative surgery. General surgical technique. Surgical instruments. Separation and connection of tissues.
- ⌚ Topographic anatomy of limbs.
Operations on the upper and lower extremities.
- ⌚ Topographic anatomy of the head. Operative head surgery.
- ⌚ Topographic anatomy of the neck.
Operations on the neck organs.
- ⌚ Topographic anatomy of the breast. Basics of surgical interventions on the chest

- * Topographic anatomy of the anterior abdominal wall and abdominal organs.
- * Fundamentals of surgical interventions on the anterior abdominal wall and abdominal organs.
- * Topographic anatomy of the lumbar region and retroperitoneal space.
- * Fundamentals of surgical interventions on retroperitoneal organs.
- * Topographic anatomy of the pelvis and perineum.
- * Fundamentals of surgical interventions on the pelvic organs and perineum.
- * Topographic anatomy of the spine and spinal cord. Fundamentals of surgical interventions on the spine and spinal cord.

Authors:

Head of the Department of Human
Anatomy with Topographic Anatomy
and Operative Surgery, Associate
Professor



Totoeva O.N.

Assistant of the Department of Human
Anatomy
with Topographic Anatomy and
Operative Surgery, PhD



Kornaeva V.N.