

APPROVED BY
by the decision of the Academic Council of the USU
Institute of Medicine, Ecology and Physical Culture
19 « 06 », 2019 Record No. 10/210

Chairman  Midlenko V.I.
(Signature, Name)
« 19 » June 2019.

EDUCATIONAL PLAN

Disciplines	Topographic anatomy and operative surgery
Faculty	Medicine named after T.Z. Biktimirova
Name of department	General and operative surgery with topographic anatomy and a course of dentistry
Course	3-4

Direction (specialty) 31.05.01 General medicine
(code of direction (specialty), full name)

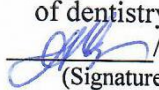
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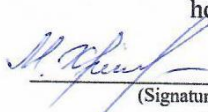
The form of training _____ full-time _____


Date of introduction into the academic process at Ulyanovsk State University
« 1 » of September 2019 _____

Revised at the Department meeting, Record No. 1 of 30.08.2020
Revised at the Department meeting, Record No. 1 of 31.08.2021
Revised at the Department meeting, Record No. 01 of 31.08.2022
Revised at the Department meeting, Record No. _____ of _____ 20____

Full name	Abbreviation of Department	Position, Academic, degree, title
Gnoevoy Vitaly V.	General and operative surgery with topographic anatomy and the course of dentistry	PhD, senior Lecturer, Associate Professor

AGREED	
Chair of the department of general and operative surgery with topographic anatomy and the course of dentistry, developing discipline	
	Smolkina A.V. /
(Signature)	(Name)
« 17 » 06	2019 г.

AGREED	
Head of graduating department hospital therapy	
	Vize-Hrypynova M.A. /
(Signature)	(Full name)
« 17 »	June 2019

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

1. The course aims and objectives

Purpose - Anatomico-surgical preparation of students, necessary for subsequent studies in clinical departments, primarily surgical, and in independent medical activities; formation of students' knowledge of systems taking into account the individual variability of organs, vessels, nerves; the formation in students of the skills to apply the obtained topographic and anatomical knowledge to substantiate the diagnosis, explain the features of the course of pathological processes, solve diagnostic and surgical problems; mastering students elementary operational actions and some typical surgical techniques, forming professional competencies.

Tasks:

- formation of students' knowledge of topographic anatomy of regions, organs and systems, paying special attention to clinically important anatomical and functional features;
- formation of students' ability to apply the obtained topografo-anatomical knowledge to substantiate the diagnosis, explain the features of the course of pathological processes, solve diagnostic and surgical problems.
- Student mastery of elementary operative actions and some typical surgical techniques.
- formation of professional competences.

2. Place of the course in the curriculum


Discipline "Topographical anatomy and operative surgery" refers to the base portion B1.B.25. The development of the discipline is based on the knowledge and skills generated by previous disciplines and practices: anatomy, histology, biology, general surgery.

It is prior to study disciplines: pathological anatomy, clinical pathological anatomy; medical rehabilitation; neurology, medical genetics, neurosurgery; otolaryngology; ophthalmology; forensic Medicine; obstetrics and gynecology; pediatrics; propaedeutics internal medicine, radiodiagnostics; faculty therapy, occupational diseases; hospital therapy, endocrinology; phthisiology; polyclinic therapy; general surgery, radiation diagnosis; anesthesiology, intensive care, intensive therapy; Faculty surgery, urology; Hospital surgery, pediatric surgery; dentistry; oncology, radiation therapy; traumatology, orthopedics.


3. The list of planned learning outcomes for subjects (modules), correlated with the planned result of the development of vocational education programs

The study of discipline "Topographical anatomy and operative surgery" in the development of the discipline of the material is aimed at developing students following of general and professional competencies in accordance with the GEF IN:

Code and name of the implemented competence	The list of planned learning outcomes of subjects (modules), correlated with indicators of achievement of competencies
OC-1 The ability to think abstractly and synthesis	<p><u>Know:</u></p> <p>Basic conditions and diseases, compare data to generate principles of treatment.</p> <p><u>be able to:</u></p> <p>To choose the most rational way of surgical</p>

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

	<p>treatment, taking into account topographic features anatomichsekih and age.</p> <p><u>Own:</u> Medical and anatomical conceptual apparatus. Algorithm generating surgical approach.</p>
<p>OPC-4 The ability and willingness to implement ethical and deontological principles</p>	<p><u>Know:</u> Etiology, pathogenesis, diagnosis, clinical course, possible complications of frequent surgical diseases. Especially religious cultures.</p> <p><u>be able to:</u> To be able to correctly explains to the patient about the consequences of failure of the operation, possible changes and complications during surgery</p> <p><u>Own:</u> Deontological principles of communication with the patient, his relatives, nurses, doctors.</p>
<p>OPC-5 The ability and willingness to analyze the results of their own activities for the prevention of professional errors</p>	<p><u>Know:</u> Features topographic structure of the area in view of possible surgery</p> <p><u>be able to:</u> Determine the most optimal access and operational reception at a particular disease in each patient</p> <p><u>Own:</u> The basic surgical instruments, use them properly, the technique of basic surgical techniques</p>
<p>OPC-10 Willingness to ensure the care of the sick and to the provision of primary medical care</p>	<p><u>Know:</u> Basic urgent surgical diseases and conditions. The principles of primary care.</p> <p><u>be able to:</u> Use items and means of patient care.</p> <p><u>Own:</u> Equipment for primary surgical care in emergency and planned way</p>
<p>OPC-11 Willingness to use medical devices provided for orders of care.</p>	<p><u>Know:</u> Basic modern medical devices, instruments and apparatus</p> <p><u>be able to:</u> Choose the right medical product to provide the necessary surgical care</p> <p><u>Own:</u> The main medical devices and use them correctly</p>

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		


4. GENERAL DIFFICULTY OF DISCIPLINE

4.1. Volume discipline in credit units - 5

4.2. By type of study (hour) - 180


Kind of study	Number of hours (training form - full-time)		
	All according to plan	Including by semester	
		semester number	semester number
		6	7
Contact work enrolled with the teacher in accordance with MPS	105	-	-
<i>Auditory lessons:</i>	<i>105</i>	<i>51</i>	<i>54</i>
lectures	17	17	-
Seminars and workshops	88/88* of them in an interactive way 24	34	54
Laboratory work, workshops	-	-	-
Independent work	39	3	36
The shape of the current knowledge of the control and monitoring of independent work: testing, essay, presentation, problem solving	-	-	-
Course work	-	-	-
Forms intermediate certification. (Test). (Exam).	36	-	36
Total hours on discipline	180	54	126

* If it is necessary to use partially or exclusively remote educational technologies in the educational process, the table shows the number of hours of work of teaching staff with students for conducting classes in a remote format using e-learning.


Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

4.3. Contents (unit).
Distribution of hours for topics and types of study:
Mode of study: Full-time

Name and sections and topics	Total	Types of studies					
		Auditory lessons			Take- ment in INTER - hydroc hloric ktiv- form	Inde pend ent work	The shape of the current control of knowled ge
		Lek- tion	Cal- practic al classes, semina r	Labor a- Tornio works, practica l Kum			
one	2	3	4	5	6	7	
6 semester							
Section 1. Introduction.							
Theme 1.Methods of study of topographic anatomy. Total surgical technique.	4	one	2	-	-	one	tests
Section 2. Of course.							
Theme 2. Topographic anatomy of the shoulder girdle areas.	3	1	2	-	-	-	Tests, poll
Theme 3. Topography of the shoulder and elbow, the forearm.	3	1	2	-	-	-	Tests, poll
Theme 4. Topographic anatomy of the back and palm of the hand surface, wrist joint. Operations with chronic inflammatory diseases of the upper limb. Blockade. Tendon suture.	3	1	2	-	-	-	Tests, poll
Theme 5. Topography buttocks and thighs, the hip joint.	3	1	2	-	-	-	Tests, poll
Theme 6. Topography of the knee, popliteal fossa, the lower leg, ankle and foot.	3	1	2	-	-	-	Tests, poll
Theme 7. Operations on the bones and joints of the limbs.	3	1	2	-	2	-	Tests, poll
Theme 8. Amputation and disarticulation of limbs.	5	1	2	-	2	2	Tests, poll
Theme 9. Thread operations on vessels and nerves of the upper and lower extremities. Projection	3	1	2	-	2	-	Tests, poll

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

limb anatomy SORT							
Theme 10. Technique skills sections "of course". Pho wounds. Exposure of limbs SNP. Incisions in purulent diseases of the lower limbs.	3	1	2	-	-	-	Tests, poll
Section 3. Head							
Theme 11. Topographic anatomy of the cerebral part of the head. Operations in the calvaria. Pho wounds.	3	1	2	-	2	-	Tests, poll
Theme 12. The topography of the facial region of the skull. Operation for facial skull department. Pho wounds.	3	1	2	-	-	-	Tests, poll
Section 4. Neck							
Theme 13. Topographic anatomy and operative surgery of the neck.	3	1	2	-		-	Tests, poll
Theme 14. PECVD neck wounds. Outcrop SNP neck. Operations in the organs of the neck.	3	1	2	-	2	-	Tests, poll
Section 5. chest cavity							
Theme 15. Surgical Anatomy of the chest wall, breast, pleura, lung.	3	1	2	-	-	-	Tests, poll
Theme 16. Surgical anatomy of the mediastinum.	3	1	2	-	-	-	Tests, poll
Theme 17. Operations in the thoracic cavity, mediastinum organs.	3	1	2	-	2	-	Tests, poll
<i>Total per semester</i>	54	17	34	-	12	3	<i>tickets on competition</i>
7 semester							
Section 6. Belly							
Theme 18. Topography anterolateral abdominal wall. Weak spots.	12	-	6	-	-	6	Tests, poll
Theme 19. Surgical anatomy of the inguinal, umbilical and	6	-	6	-	3	-	Tests, poll

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

femoral hernias. Hernia repair and plastic.							
Theme 20. Topographical anatomy of the upper abdominal organs	12	-	6	-	-	6	Tests, poll
Theme 21. Topographic anatomy of the organs of the lower floor of the abdominal cavity. General principles of imposition of intestinal sutures. Technique perform basic operations on the small and large intestine.	12	-	6	-	3	6	Tests, poll
Theme 22. Operations on organs upper abdomen	6	-	6	-	-	-	Tests, poll
Theme 23. The operations on the abdominal organs.	6	-	6	-	-	-	Tests, poll
Theme 24. The topography of the lumbar region and retroperitoneal space. Technique of surgical interventions on the organs of the retroperitoneal space	6	-	6	-	3	-	Tests, poll
Theme 25. The operations on the abdominal organs and retroperitoneum	6	-	6	-	-		Tests, poll
Theme 26 Topographic anatomy of the pelvis and perineum. Pelvic surgery and perineum.	12	-	6	-	3	6	Tests, poll
Section 7. Pozvonochnik							
Theme 27. Operative surgery and topographic anatomy of the spine.	12	-		-	-	12	Tests, poll
<u>EXAM</u>	36	-	-	-	-	-	tickets
<u>Total per semester</u>	90	-	54	-	12	36	
All for discipline	180	17	88	-	24	39	


Note-Abbreviation:

SORT neurovascular bundle, PECVD-primary debridement.

5. COURSE CONTENT

Section 1. Introduction.

Theme 1. Methods of study of topographic anatomy. Total surgical technique.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

The object and purpose of operative surgery and topographic anatomy, the place of discipline in the system of higher medical education. Russian surgical school. Basic concepts of topographic anatomy: the region and its borders, the projection of anatomical structures on the surface, golotopiya, skeletopy, Syntopy bodies fascial sheath, neurovascular structures, cellular spaces, collateral circulation. the doctrine of

individual variability of human organs and systems. Modern methods of study of topographic anatomy. Operative Surgery and its tasks. The doctrine of the surgery. Classification of surgical operations. Elementary surgical actions, surgical techniques, stages of the operation. Surgical instruments, and its classification. Characteristics of the suture. The methods of local anesthesia. General principles of primary surgical treatment of wounds. The concept of simultaneous, microsurgical, endoscopic, endovascular, cosmetic and aesthetic surgery. General principles of transplantation of organs and tissues.

Section 2. Of course.

Theme 2. Topographic anatomy of the shoulder girdle areas.

General characteristics of the areas of the upper limb. Border area, external body landmarks. Land-anatomical layers, thickness, mobility, particularly division, musculo-fascial bed, intermuscular cellular spaces, distribution purulent streaks, tendon-ligament formation, intermuscular spaces, grooves, holes, channels and their contents, capsules, mucous bags, inversions, weaknesses of large joints. NVB: composition, sources of their formation and Syntopy elements branches anastomoses. Zone sensory and motor innervation. Regional lymph nodes.

Theme 3. Topography of the shoulder and elbow, forearm


General characteristics of the areas of the upper limb. Border area, external body landmarks. Land-anatomical layers, thickness, mobility, particularly division, musculo-fascial bed, intermuscular cellular spaces, distribution purulent streaks, tendon-ligament formation, intermuscular spaces, grooves, holes, channels and their contents, capsule, mucous bags, inversions, weaknesses of large joints. NVB: composition, sources of their formation and Syntopy elements branches anastomoses. Zone sensory and motor innervation. Regional lymph nodes. Superficial and deep venous system. Incisions in phlegmon brush and felon. Autopsy abscesses limbs.

Theme 4. Topographic anatomy of the back and palm of the hand surface, wrist joint. Operations with chronic inflammatory diseases of the upper limb. Blockade. tendon suture

General characteristics of the areas of the upper limb. Border area, external body landmarks. Land-anatomical layers, thickness, mobility, particularly division, musculo-fascial bed, intermuscular cellular spaces, distribution purulent streaks, tendon-ligament formation, intermuscular spaces, grooves, holes, channels and their contents, capsules, mucous bags, inversions, weaknesses of large joints. NVB: composition, sources of their formation and Syntopy elements branches anastomoses. Zone sensory and motor innervation. Regional lymph nodes.

Theme 5. Topography buttocks and thighs, the hip joint.

General characteristics of the areas of the upper limb. Border area, external body landmarks.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Land-anatomical layers, thickness, mobility, particularly division, musculo-fascial bed, intermuscular cellular spaces, distribution purulent streaks, tendon-ligament formation, intermuscular spaces, grooves, holes, channels and their contents, capsules, mucous bags, inversions, weaknesses of large joints. NVB: composition, sources of their formation and Syntopy elements branches anastomoses. Zone sensory and motor innervation. Regional lymph nodes. Superficial and deep venous system. Autopsy abscesses limbs. Principles and techniques of primary surgical treatment of wounds of limbs.

Theme 6. Topography of the knee, popliteal fossa, the lower leg, ankle and foot.

Projections of extremities SNP. General principles of peripheral vascular surgery. Collateral blood flow to the extremities. Venipuncture and venesection. Catheterization of the great vessels. Ligation of vessels in the wound and over. Vascular suture, plastic and reconstructive vascular surgery, varicose and postthrombophlebitic disease. The concept of microsurgical techniques in vascular surgery. Forming operation of the hemodialysis vascular access. Operations on the nerves and tendons. The blockade of nerve roots and plexus, nerve suture, the concept of neurotomy, neurolysis, nevrektomii and plastic surgery on the nerves.

Theme 7. Operatsii on the bones and joints of the limbs.

Operations on joints: puncture, arthrotomy, resection. Surgery on the bones: the concept of the osteotomy, resection surgery for osteomyelitis of tubular bones of the extremities. Typical displacement of bone fragments at bone fractures of upper and lower limbs. Skeletal traction, osteosynthesis (ekstramedulyarny, intramedullary, extrafocal). Tendon suture Lange, Kühne, Kazakov.

Theme 8. Amputation and disarticulation of limbs.


limb amputation. General principles truncated limbs. Types of amputations, depending on the manner of implementation, the nature of flaps, the composition of the tissues that make up the flaps. Techniques for processing vessels, nerves, bones and the periosteum. Principles of formation of amputation stump. Naughty stump. Truncation fingers. Cinematization (falangizatsiya) stump forearm and hand. Replantation of fingers and toes.

Theme 9. Thread operations on vessels and nerves of the upper and lower extremities. Projection anatomy limbs SNP.

Ligation of vessels in the wound and over. Vascular suture, plastic and reconstructive vascular surgery, varicose and postthrombophlebitic disease. The concept of microsurgical techniques in vascular surgery. Forming operation of the hemodialysis vascular access. Operations on the nerves and tendons. The blockade of nerve roots and plexus, nerve suture, the concept of neurotomy, neurolysis, nevrektomii and plastic surgery on the nerves.

Theme 10. Technique skills sections "of course". Pho wounds. Exposure of limbs SNP. Incisions in purulent diseases of the lower limbs.

Equipment isolation neurovascular bundle. Place sections for the production of pus.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Section 3. Head.

Theme 11. Topographic anatomy of the cerebral part of the head. Operations in the calvaria. Pho wounds.

Border areas: the frontal-parietal-occipital, temporal, mastoid region. The layers and their characterization, blood vessels and nerves, cellular spaces. The structure of the set of bones

skull and mastoid. The outer and inner base of the skull. Epidural and intrathecal space. Features of arterial blood supply and venous drainage from the brain, cerebrospinal fluid of the brain system. Schemes craniocerebral topography. Side face area. soft tissue layers and topographic anatomical characteristics. Sucking pad. Arterial blood supply to areas of the face and venous drainage, innervation.

Primary non-invasive and surgical treatment of penetrating wounds. Methods for stopping bleeding in damaged soft tissues, calvarial bone, middle artery of the dura mater, venous sinuses, brain vessels. Resection and osteoplastic craniotomy operations with depressed skull fractures, plastic bone defects of the cranial vault, trepanation of the mastoid process. The concept of the surgical treatment of brain abscesses, draining of operations in hydrocephalus.

Theme 12. The topography of the facial region of the skull. Operation for facial skull department. Pho wounds.

The projection of the branches of the facial nerve, parotid duct, places the trigeminal nerve branch of the bone channel. Regional lymph nodes person. Okoloushnozhevatelnaya area. Zanzhnechelyustnaya fossa, parotid gland, neurovascular structures, peripharyngeal cellular spaces. Deep facial area. Pterygoid venous plexus and its role in hematogenous path of infection. Maxillary artery, mandibular nerve and its branches, cellular spaces, distribution purulent streaks in neighboring areas. Infraorbital and submental area. Primary surgical treatment of wounds of the maxillofacial area. An autopsy phlegmon of the maxillofacial region. The concept of cosmetic and aesthetic surgery on his face.

Section 4. Neck.


Theme 13. Topographic anatomy and operative surgery of the neck.

Topographic anatomy of the lateral triangle of the neck. Intermuscular intervals. Clinical anatomy of the closed and open fascial sheaths neck anatomical and physiological study of surgery on the neck.

Topographic anatomy of the neck triangles and intermuscular intervals. Clinical anatomy of the neck organs: larynx, pharynx, esophagus, trachea, thyroid, parathyroid and submandibular glands. Anatomical and physiological study of surgery on the neck.

Theme 14. PECVD neck wounds. Outcrop SNP neck. Operations in the organs of the neck.

Surgical instruments. Primary surgical debridement. Neck vagosympathetic blockade on AV Vishnevsky, brachial plexus block for Kullenkampfu. Puncture and catheterization of the subclavian vein. Outcrop and catheterization

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

thoracic duct. Accesses to the sleepy and subclavian artery. Surgery on the trachea, thyroid, esophagus. Tracheostomy, konikotomiya. Cosmetic surgery on the neck. Autopsy superficial and deep abscesses of the neck.

Primary non-invasive and surgical treatment of penetrating wounds. Ways to stop bleeding when damaged soft tissues, bones of the skull, cervical vagosympathetic blockade on AV Vishnevsky, brachial plexus block for Kullenkampfu. Tracheostomy, konikotomiya.

Section 5. chest cavity.

Theme 15. Surgical Anatomy of the chest wall, breast, pleura, lung.

Chest wall. Border, external benchmarks, the projection of the pleura, organs, heart valves, aortic, pulmonary trunk and large vessels in the chest wall. Aperture, its structure, weak diaphragm seat. Mammary gland: its structure, cellular spaces, blood supply, innervation, the regional lymph nodes. Chest cavity. Pleural cavity, sinuses, mezhplevralnye field, lungs, trachea and bronchi. Breast surgery for malignant and benign tumors. The concept of the plastic and aesthetic breast surgery. Types thoracotomy. Surgeries in penetrating wounds of the chest and the valve pneumothorax. The concept of surgical methods for the treatment of acute and chronic empyema and lung abscess. The concept of pneumonectomy, lobectomy, segmentectomy. Incisions in purulent mastitis. The puncture of the pleural cavity. Plevromyshechny and polispastny seams. Subperiosteal resection ribs. Pericardiocentesis, pericardiotomy

Theme 16. Surgical anatomy of the mediastinum.

Mediastinum, borders, division organs. Anatomical and physiological study of surgical interventions. Aneurysm of the aortic arch. Surgical approaches to the heart. Pericardiocentesis, pericardiotomy. The seam of the heart. Principles of operations for congenital and acquired heart diseases and large vessels in ischemic heart disease. The concept of extracorporeal circulation and heart transplants. Accesses to the thymus. Removal of foreign bodies from the esophagus. probing the esophagus. Line access to the thoracic esophagus. The concept of transplevralnoy esophageal resection of modern methods esophagoplasty. An autopsy purulent mediastinitis.


Tema17. Operations in the thoracic cavity, mediastinum organs.

Incisions in purulent mastitis. The puncture of the pleural cavity. Plevromyshechny and polispastny seams. Subperiosteal resection ribs. Pericardiocentesis, pericardiotomy.

Section 6. Belly.

Theme 18. The topography of the anterolateral abdominal wall. Weak spots.

Border, external benchmarks, the projection of organs and neurovascular structures in the front wall. Individual and age differences shapes the abdomen. abdomen: the front side wall, abdomen, lumbar region and retroperitoneal space. Topographic anatomy of the vagina rectus muscles, the lateral abdominal wall. Topographic and anatomical conditions of education linea alba hernias, umbilical, inguinal.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Theme 19. Surgical anatomy of the inguinal, umbilical and femoral hernias. Hernia repair and plastic.

Surgical anatomy of the abdominal hernias: umbilical, oblique and direct inguinal, moving, birth. Postoperative hernia. Anatomical and physiological study of surgical interventions. Surgical instruments and equipment. Operations on the anterior abdominal wall hernias: inguinal, femoral, umbilical, linea alba. Abdominal puncture (paracentesis). The concept of laparoscopic surgery.

Theme 20. Topographical anatomy of the upper abdomen.

Structure and function of the peritoneum, floors, bags, sinus canals pockets. Clinical anatomy of the abdominal esophagus, stomach, duodenum, liver, gallbladder and extrahepatic bile ducts, spleen, pancreas. Features arterial blood supply to organs and the venous outflow. Innervation of the organ, the regional lymph nodes.

Theme 21. Topographic anatomy of the organs of the lower floor of the abdominal cavity. General principles of imposition of intestinal sutures. Technique perform basic operations on the small and large intestine.

The topography of the small and large intestine. The course of the peritoneum in the lower floor, the connection formations peritoneum in the abdomen. Revision of the abdominal cavity in penetrating wounds. Theoretical bases and methods of superimposing intestinal sutures. Resection of the small and large intestines, the technique of forming anastomosis "end to end", "side to side", "end to side" with and without opening. Appendectomy, removal Mekkeleva diverticulum. Fecal fistula, unnatural anus. Operations at megacolon and Hirschsprung's disease.


Theme 22. Operations on organs upper abdomen

Surgery on the stomach and duodenum. Closure perforated ulcer, gastrotomy, gastrostomy, gastroenterostomy, stomach resection Billroth Billroth-1 and-2 (a modification of a Hofmeister-Finsterer mezhpetelnym anastomosis by Brown). Vagotomy draining operations. Operations at hiatal hernia Nissen. Surgical treatment of congenital pyloric stenosis.

Theme 23. The operations on the abdominal organs.

of the liver and biliary tract operation. Blockade of the round ligament liver, liver wound suture anatomical and atypical liver resection; the concept of surgical treatment of liver abscesses; portal hypertension. Cholecystectomy, cholecystostomy forming biliodigestive anastomoses. The concept of a liver transplant. Operations in the spleen. The seam of the spleen, splenectomy, spleen autotransplantation in traumatic injuries. Operations in the pancreas. Accesses to the pancreas. The concept of operations in acute and chronic pancreatitis, cysts and abscesses.

Theme 24. The topography of the lumbar region and retroperitoneal space. Technique of surgical interventions in the retroperitoneal space.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Projection organs and large vessels retroperitoneum to the skin of the abdominal wall and the anterior lumbar region. Individual and age features. Medial and lateral sections, layers and their characterization, blood vessels, nerves. Weaknesses, cellular spaces. Regional lymph nodes. Clinical anatomy of the kidneys, adrenal glands and ureters. Topographic anatomy of the abdominal aorta, inferior vena cava, a steam room and hemiazygos veins, formation of thoracic duct, lumbar plexus and its nerves, sympathetic trunks and plexuses. Surgical instruments and equipment. Perirenal blockade on Vishnevsky. Seam kidney, partial nephrectomy, nephropexy, pielotomiya, nephrectomy. The concept of renal transplantation. Suture ureter, plastic surgery for defects ureters.

Theme 25. The operations on the abdominal organs and retroperitoneum.

Individual, gender and age features of the structure of the pelvis and pelvic wall. Pelvic floors. The course of the peritoneum in the male and female pelvis, the fascia and cellular tissue of the pelvis area. Urogenital and anal triangles: layers and their characteristics, neurovascular structures and cellular spaces. External genitals in both men and women. The crotch portion of the rectum, especially arterial blood supply and venous drainage, the regional lymph nodes.

Theme 26. Topographic anatomy of the pelvis and perineum. Pelvic surgery and perineum.

Surgical instruments and equipment. Novocaine blockade of the spermatic cord and the round ligament of the uterus. Blockade of the pudendal nerve, intrabasin blockade on Selivanov-Shkolnikov-Tsodyksu. Operations in the bladder: Puncture bladder cystotomy, cystostomy, suturing the wound bladder. The concept of the plastic bladder. about adenoma and prostate cancer surgery. Culdocentesis, vaginotomy, surgery for an ectopic pregnancy. Surgery for hemorrhoids, rectal prolapse. Operations at undescended testis; hydrocele and spermatic cord, with phimosis and paraphimosis. The concept of operations for male and female infertility. Drainage of pelvic abscesses.

Section 7. Spine.

Theme 27. Operative surgery and topographic anatomy of the spine.


Departments, external benchmarks. The spine and the spinal canal. Individual and age differences of the spine and spinal cord. Spinal cord membranes, nerve roots. Skeletopy spinal segments. Blood supply, venous drainage. Anatomical and physiological study of surgical interventions. Surgical instruments and equipment. A lumbar puncture. Laminectomy. Surgical methods for spinal fixation in fractures. Reconstructive and stabilizing spinal surgery. Operations at anomalies of the spine, spinal hernia.

6. The structure and Workload

Lesson # 1. Methods of studying topographic anatomy. General surgical technique.

questions:

1. Classification of surgical instruments, its application. General surgical instruments.
2. Basic principles of disconnection and connectivity of tissues.
3. Types of surgical nodes, suture material, methods of suturing.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

4. The main methods of temporary and final stop bleeding in the wound.
5. Principles of PCW of wounds of soft tissues.
6. Indications for the use of primary, primary-delayed and secondary sutures.

Shape holding -SAMOSTOYATELNAYA WORK

ISSUES

The concept of simultaneous, microsurgical, endoscopic, endovascular, cosmetic and aesthetic surgery.

General principles of transplantation of organs and tissues.

Lesson # 2. Topographical anatomy of the areas of the forearm.


questions:

1. Deltoid area, boundaries, layered topography.
2. Sub- deltoid cellular space and its connection with other regions.
3. Topography of the vessels and nerves surrounding the surgical neck of the humerus.
4. Scapular region, musculoskeletal landmarks, bone-fibrous lodges and their contents
5. Major vascular-neural bundles of the scapular region.
6. Scapular anastomatic circle and its role in the development of collateral circulation in the ligation of the axillary artery.
7. Ways of spread of inflammation from the scapular region.
8. Ligaments, muscles surrounding the shoulder joint. Why in the shoulder joint are possible "habitual" dislocations.
9. Projection of the joint space, the border of attachment of the capsule of the joint, its weak points.
10. Sub-clavicular region: borders, external landmarks, layered structure.
11. Superficial and deep subpectoral cell spaces
12. Axillary region: external landmarks, borders, layered structure.
13. Topography of the axillary artery and its relationship with the branches of the brachial plexus along triangles.
14. The nature of the structure of cellulose and the features of the flow of phlegmons of the axillary basin. Five groups of lymph nodes.

Lesson # 3. Topography of shoulder and elbow joint area, forearm areas.

questions:

1. External reference points and boundaries of the shoulder and elbow area.
2. Topography of lateral cuts of the shoulder at the level of the upper, middle and lower third.
3. The main neurovascular bundle of the anterior region of the shoulder.
4. Vascular bundle of the posterior region of the shoulder.
5. Internal reference points for access to the radial nerve in the middle third of the shoulder.
6. External landmarks and boundaries of the elbow area.
7. Vascular bundles of the ulnar region.
8. Elbow joint and weak points of its capsule.
9. Levels of ligation of the brachial artery on the shoulder and in the ulnar fossa.
10. External landmarks, boundaries, division of the forearm area.
11. Front fascial bed of the forearm, layers. neurovascular bundles.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

12. Topography of vascular-neural formations in the upper, middle and lower thirds of the forearm.
13. Cellular space of Pirogov-Paron and its connection with the spaces of the hand and the ulnar region.
14. Posterior and lateral fascial forearm beds, layers, vascular-neural bundles.

Lesson # 4. Topographic anatomy of the dorsum and palmar surfaces of the hand, wrist joint. Operations for purulent-inflammatory diseases of the upper limb. Blockades. Tendon seam.


questions:

1. The area of the wrist and hand, external landmarks, borders.
2. The palm surface of the hand, innervation of the skin of the hand and fingers, features of the structure of the skin and subcutaneous tissue.
4. Wrist canal, radial and ulnar canals of the wrist.
5. Aponeurosis and fascial folds of the palm, cell spaces of the palm.
6. Synovial and osteo-fibrous sheath of tendons of finger flexures, their structure and significance in the spread of inflammatory processes on the hand.
7. Wrist joint, projection of the joint space, articular capsule, its weak points, blood supply and innervation.
8. The back surface of the brush, the zones of cutaneous innervation, the layers.
9. Bone-fibrous canals, vascular-neural formations of the dorsal surface of the hand.
10. Projections of articular slits of metacarpophalangeal, interphalangeal joints, their ligamentous apparatus.
11. Incisions with purulent inflammation of the hand, fingers (draw a diagram).
13. Blockade by Oberst-Lukashevich and Brown-Usoltseva.
14. Opening of inflammatory processes of free upper limb.
15. Technique of imposing a tendon suture.

Lesson # 5. Topography of the gluteal region and thigh, hip joint.

questions:

1. External landmarks, borders of the gluteal region.
2. Layers, fascia, cell spaces, vascular neural formations of the gluteal region.
3. Connection of the cellular spaces of the gluteal region with the spaces of the pelvis and hip.
4. Posterior region of the thigh, layers, fascial bed.
5. Position of fragments with fracture of the femur at various levels.
6. Incisions with phlegmon gluteal region and hamstring.
7. External reference points, the front of the hip.
8. Topography of muscular and vascular lacunae.
9. Femoral canal, walls, inner and outer ring, contents.
10. Femur triangle, layers, iliac crest.
11. Topography of vascular-neural formations in the Scarpian triangle
12. Blocking vascular-neuromuscular bundle, blockage channel, blocking hernias.
13. Lead (canter) channel, walls, holes.
14. Hip joint, projection of joint space.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

15. The joint capsule and the apparatus strengthening it, the weak points of the joint capsule, blood supply and innervation.
16. Position of the femoral head with dislocations.
17. Position of fragments at femoral neck fractures.

Lesson # 6. Topography of the knee, popliteal, shin, ankle and foot regions.


questions:

1. The area of the knee, external landmarks, boundaries.
2. Anterior region of the knee, layers, vascular-neural formations, synovial bags.
3. Posterior region of the knee (popliteal fossa).
4. Level of dressing of the popliteal artery.
5. Knee joint that strengthens the apparatus.
6. Capsule of the joint, its weak points. Synovial twists and their role in the spread of purulent swelling in arthritis.
7. Shin area, external landmarks, borders, division.
8. Anterior and lateral fascial folds of the lower leg, layers
9. Topography of vascular-neural formations in the upper, middle and lower thirds of the lower shin
10. Fascial bed of the posterior region of the tibia, muscle layers.
11. The popliteal popliteal canal, the contents.
12. The connection of the pharyngeal space with the cells of the popliteal fossa and foot.
13. The Pirogov Canal.
14. The position of fragments in fractures of the lower leg bones at different levels.
15. External reference points, borders of ankle joint area.
16. Topography of tendons, synovial sheath and a neurovascular bundle area of the medial malleolus, ankle canal
17. The area of the lateral malleolus, layers, the topography of tendons and vascular formations.
18. Bone fibrosis channels, layers, topography of tendons and vascular formations.
19. Back area (Achilles tendon region), layers, synovial bags, vessels and nerves.
20. Capsule and strengthening apparatus of the ankle joint, blood supply, innervation.
21. Topography of the dorsal region of the foot.
22. Projection of the transverse tarsal joint (Chopar) and the preglial joint (Lisfranca), the zone of cutaneous innervation.
23. Area of the sole, layers, fascial beds.
24. Topography of vascular-neural bundles. Cellular spaces.

Lesson # 7. Operations on the bones and joints of the limbs.

questions:

1. Technique of puncture of the shoulder, elbow, wrist joints.
2. Technique of puncture of the hip, knee, ankle joints.
3. Technique of opening the shoulder, elbow, wrist joints.
4. The technique of opening the hip, knee, ankle joints.
5. Resection of the shoulder, elbow, wrist joints.
6. Resection of the hip, knee, ankle joint.
7. Operations on the bones of extremities in fractures and osteomyelitis.
8. Surgery for injuries to tendons.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

9. Arthroplasty of the shoulder, elbow, hip, knee joints.

Lesson # 8. Amputation and exarticulation of the extremities.

questions:

1. Definition of amputation and exarticulation: absolute, relative indications. Types of amputations and timing.
2. Stages of amputation and their characteristics. Intersection of soft tissues. Treatment of bone and periosteum. Toilet wound.
3. Methods of covering the amputation stump (fascio, myo-, bone-plastic).
4. Anesthesia. Indication and technique of applying a tourniquet. Special tools for amputation and its use.
5. Amputation and exarticulation on the hand.
6. Amputation of the forearm and exarticulation in the wrist joint. Operation Krukenberg-Albrecht.
7. Amputation of the shoulder.
8. Amputation and exarticulation on the foot.
9. Amputation of the leg: osteoplastic by N. I. Pirogov and throughout.
10. Hip amputation: osteoplastic and throughout.
11. Exarticulation in the hip joint.
12. The vicious stump and the reasons for its formation. Reamputation.


Shape holding -SAMOSTOYATELNAYA WORK

ISSUES amputations equipment at different levels. The possibility of prosthetics

Lesson # 9. Operations on the vessels and nerves of the upper and lower limbs. Projection anatomy of the NVB of the extremities

questions:

1. General principles of vascular surgery. Special tools.
2. Vascular ligation. Technique and levels of superposition of ligatures on the main vessels of the extremities. Tools.
3. Performing access to expose the major NVB during the course of the final stop of bleeding
4. Requirements and technique of superposition of the vascular suture according to Carrel and Morozova.
5. General principles of mechanical seam of vessels. Vascular plastic surgery.
6. Projection lines and incisions for exposing and dressing the subclavian artery and axillary artery according to Petrovsky and Janelidze.
9. Operative access to the subclavian, axillary, brachial, radial, ulnar arteries. Interaction with the adjacent nerve, the projection of NVB. Forbidden Zone Canavella.
10. Projections of the external iliac, femoral, popliteal, posterior and anterior tibial arteries.
11. Operative access to the external iliac, femoral, popliteal, posterior and anterior tibial arteries. Interrelation with the adjacent nerve, the projection of NVB.
12. Operations on the vessels of the extremities. Vascular suture. Vessel dressing in the wound and throughout.
13. Operations for varicose veins of the lower limb.
14. Operations on the nerves of the extremities. Seam of nerve.
15. Venipuncture. Venues of Venesection.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Lesson #10. Technique for performing practical skills in the sections "Finiteness". PST of wound. Exposure of the NVB of the extremities. Incisions in purulent diseases of the lower limb. The final lesson.

questions:

1. The location of the incisions at the opening of phlegmon in the region of free upper and lower limbs.
2. The technique of performing venesection and venepuncture.
3. Stop bleeding in the wound and during the damage to the main vascular bundle of the extremities. Vascular suture
4. Principles and techniques of nerve seam.
5. Principles and techniques of the circular and lateral seam of the vascular wall.
6. Technique of injections (intra-dermal, subcutaneous, intramuscular, intravenous).
7. Technique of performing joint puncture.
8. Locations of performing joint dissection.
9. Technique of performing PST of wounds of the extremities.

Lesson # 11. Topographic anatomy of the brain part of the head. Operations on the cranial vault. PST of wound.


questions:

1. Borders, external reference points of the cerebral part of the head.
2. Topography of the frontal-parietal-occipital region.
3. Topographic anatomy of the temporal region.
4. Topographic anatomy of the mastoid region.
5. Features of blood supply to soft tissues of the cranial vault.
6. Topography of the main nerve trunks of the brain region of the head.
7. Topography of the inner surface of the skull base.
8. Shells of the brain, near-shell spaces, venous sinuses.
9. The Kranelein-Bryusova scheme, its practical significance
10. Localization of hematomas, taking into account the layered topography of the cerebral part of the head.
11. Connections of extracranial and intracranial veins and their practical importance.
12. Toolkit used for operations on the skull.
13. Primary surgical treatment of wounds of the brain region of the head.
14. Features of processing of scalp wounds.
15. Techniques of bone-plastic and decompressive trepanation of the skull.
16. The triangle of Shipo. Antrumotomy. Complications

Lesson # 12. Topography of the facial part of the skull. Operations on the facial part of the skull. PST of wound

questions:

1. Borders, external reference points of the facial part of the head.
2. Topographic anatomy of the anterior region of the face, the chin area.
3. Topographic anatomy of the lateral area of the face: buccal, parotid-chewing.
4. Deep area of the face, cell spaces.
5. Topography of the facial and trigeminal nerves Projections of branches on the face.
6. Features of venous outflow of the face.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

7. Requirements and techniques for primary surgical treatment of facial wounds.
8. Incisions with phlegmon of the face.
9. Topographical and anatomical prerequisites for the unfavorable course of inflammatory processes in the region of the parotid salivary gland. Opening phlegmon

Lesson # 13. Topographic anatomy and operative surgery of the neck area.

questions:

1. Topographical anatomy of the neck, division into regions, triangles of the neck.
2. Nadal region of the neck. Topography of the chin, submandibular, sleeping triangles.
3. Topography of the main neck NVB. Levels of common carotid artery division. Distinguishing signs of the internal and external carotid arteries in the wound.
4. The sub-lingual region of the neck. Outflow of lymph.
5. Topography of the neck: larynx, trachea, pharynx, esophagus, thyroid and parathyroid glands (skeletopia, holotopia, blood supply, innervation, lymphatic drainage).
6. The sternocleidomastoid region, the main NVB of the area.
7. The ladder-vertebral triangle. Neck of chest lymphatic duct. The subclavian artery and its branches.
8. Lateral triangle of the neck: topography of the scapular-trapezius and scapula-clavicular triangles.
9. Topography of the thoracic lymph duct in the neck.
10. Cellular spaces of the neck and their connection with neighboring regions

Lesson # 14. PST of wound neck. Neck neck outcrop. Operations on the organs of the neck.


questions:

1. Operative access to the organs of the neck and the main neck NVB .
2. Vagosympathetic blockade according to Vishnevsky: indications, technique, signs of performance
3. Blockade of the stellate node of the sympathetic trunk.
4. An anesthesia of the brachial plexus according to Kulenkampfu.
5. Exposure and alcoholization of the diaphragmatic nerve.
6. Exposure of the artery on the neck (carotid, subclavian).
7. Tracheotomy and tracheostomy. Indications, tools, techniques of implementation.
8. Conduction of tracheal intubation, instrumentation.
9. The technique of inserting the cannula into the trachea (2 options). Complications of tracheostomy.
10. Access to the cervical esophagus. Surgery in the cervical esophagus.
11. Access to the thyroid gland according to Kocher. Subtotal and subfascial resection of the thyroid gland according to Nikolaev.
12. Opening of abscesses and phlegmon of neck. Opening and draining of closed and non-closed spaces of the neck.

Lesson # 15. Surgical anatomy of the chest wall, breast, pleura, lungs.

questions:

1. Chest boundaries, division into regions, vertical orientation lines, constitutional features of form.
2. Layered topography of the chest.
3. Topography of the breast, lymphatic drainage.
4. Subpectoral cellular spaces.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

5. Structure of intercostal spaces, their contents. Comparative characteristics of intercostal spaces.
6. Topography of the diaphragm, weak points.
7. Topography of the pleura; sinuses, their practical significance.
8. Topography of the lungs: lobes, segments, zones.
9. Types of mastitis. Incisions in mastitis.
10. Technique of sectoral resection of the breast.
11. Basic principles of radical mastectomy.

Lesson # 16. Surgical anatomy of the mediastinum.

questions:


1. The concept of "mediastinum" and its division.
2. Topography of the anterior mediastinum.
3. Topography of the pericardium: skeleton, sintopia, holotopia, sinuses, their practical significance.
4. Topography of the heart: skeleton and sintopia, holotopia. Blood supply and innervation.
5. Topography of large blood vessels of the anterior mediastinum: pulmonary trunk, ascending part and arch of the aorta, upper and lower hollow veins.
6. Topography of the trachea and its bifurcations.
7. Topography of the posterior mediastinum.
8. Topography of the esophagus and vagus nerves.
9. Topography of the descending part of the aorta, sympathetic trunk, thoracic lymphatic duct, unpaired and semi-unpaired veins.
10. The technique of puncture of the pericardium (safety triangle).
11. Operative access to the heart.
12. Operative access to the thoracic esophagus.

Lesson # 17. Operations on the thoracic cavity and mediastinum.

questions:

1. Puncture of the rib-diaphragmatic sinus. Tools
2. Chest injuries: penetrating, non-penetrating.
3. Types of pneumothorax. Fighting pneumothorax. Sewing pneumothorax.
4. Valve pneumothorax, "balloting" of the mediastinum, pleuropulmonary shock.
5. Operative access to the lungs.
6. Lateral thoracotomy. Tools for subperiosteal resection of the rib. Technique of execution.
7. Technique of suturing the wound of the lung. Features of the implementation of seams.
8. Surgical treatment of lung abscess.
9. Pneumonectomy: indications, technique of performance.
10. Lobectomy, segmentectomy: indications, technique.
11. Acquired heart defects, the principles of their surgical treatment.
12. The technique of suturing the wound of the heart.
13. Surgical treatment of uninfected botulinum duct.
14. Puncture of the pleural cavity (with hydrothorax and pneumothorax). Indication, technique.
15. Technique of sternum puncture for bone marrow extraction. Tools.

Lesson # 18. The topography of the anterolateral abdominal wall. Weak spots.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Form of activity - practical session.

questions:

1. Border, external benchmarks, the projection of organs and neurovascular structures in the front wall.
 2. Individual and age differences shapes the abdomen.
 3. abdomen: the front side wall, abdomen, lumbar region and retroperitoneal space.
 4. Topographic anatomy of the vagina rectus muscles, the lateral abdominal wall.
- Topographic and anatomical conditions of education linea alba hernias, umbilical, inguinal.

Shape holding -SAMOSTOYATELNAYA WORK

ISSUES

Topographic anatomy of the anterolateral wall of the abdomen and its weaknesses.

Determination of content and weaknesses border of the anterior abdominal wall. Suturing of tissue during plastic modeling weaknesses.

The topography of the lumbar region and retroperitoneal space. Technique of surgical interventions on the organs of the retroperitoneal space

The topography of the gate kidneys. Extraperitoneal and transperitoneal accesses to the kidneys and ureters, their comparative characteristic (laparotomic by Fedorov, Pirogov, Bergman, Israel).

Lesson # 19.Surgical anatomy of the inguinal, umbilical and femoral hernias. Hernia repair and plastic.

Form of activity - practical session.

questions:

1. Surgical anatomy of abdominal hernias: umbilical, oblique and direct inguinal, moving, birth.
2. Postoperative hernia.
3. The surgical tools and instruments.
4. Operation on the anterior abdominal wall hernias: inguinal, femoral, umbilical, the umbilical cord, the white line of the abdomen.
5. abdominal puncture (paracentesis)
- 6.Laparoskopiya, transumbilikalnaya portogepatografiya, splenoportography.
- 7.Laparotomiya, species and their comparative evaluation. Laparoscopic surgery.


Lesson # 20. Topographical anatomy of the upper abdomen.

Form of activity - practical session.

questions:

1. Structure and function of the peritoneum, floors, bags, sinus canals pockets.
2. Clinical anatomy of the abdominal esophagus, stomach, duodenum
3. Clinical anatomy of the liver, gall bladder and of extrahepatic bile ducts,
4. Clinical anatomy of the spleen and pancreas.
5. Features arterial blood supply to organs and the venous outflow.

Innervation of the organ, the regional lymph nodes.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Shape holding -SAMOSTOYATELNAYA WORK

ISSUES

Topographical anatomy of the upper abdominal organs. peritoneum and the course of education of the peritoneum in the upper floor

Blood supply, lymph drainage, innervation of the abdominal cavity. Possible ways of spreading the infection. Technique audit upper abdomen.

Gastric surgery: gastrotomy, suturing perforated gastric ulcer, gastroenterostomy (vperediodochnoy) retrocolic. Gastrectomy Billroth-I. Operations on the liver: sutures parenchymatous organ. cholecystectomy Splenectomy

The operations on the abdominal organs.

The puncture of the abdominal cavity. Intestinal suture technique. Appendectomy. Bowel resection superimposed intestinal anastomoses. Overlay unnatural anus.

The operations on the abdominal organs

Gastrotomy, suturing of perforated gastric ulcer, gastrostomy, gastrojejunostomy. Gastrectomy. Suturing wounds small intestine and colon. Bowel resection with anastomosis "end to end", "side to side", "end to side". Suture liver, splenectomy, cholecystectomy. Suturing parenchymal organ injury. Suture liver. Splenectomy

Lesson # 21. Topographic anatomy of the organs of the lower floor of the abdominal cavity. General principles of imposition of intestinal sutures. Technique perform basic operations on the small and large intestine.


Form of activity - practical session.

questions :

1. The topography of the small and large intestine.
2. 2.Hod peritoneum in the lower floor, the connection formations peritoneum in the abdomen.
3. Revision of the abdominal cavity in penetrating wounds.
4. Theoretical bases and methods of superimposing intestinal sutures.
5. Resection of the small and large intestines.
6. Technique anastomosis "end to end", "side to side", "end to side" with and without opening.
7. Appendectomy,
8. Removing Mekkeleva diverticulum.
9. Fecal fistula, unnatural anus.
10. Operations at megacolon and Hirschsprung's disease

Shape holding -SAMOSTOYATELNAYA WORK

ISSUES

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Topographic anatomy of the lower floor of the abdominal cavity. The course of the peritoneum and the formation of the peritoneum in the lower floor. Revision abdominal cavity for bleeding and damage the wall of the penis. Types of intestinal sutures and anastomoses of hollow organs.

Intestinal seams: Lambert, Albert Schmid, black, Pirogov-Bireh, Mateshuka, Kirpatovsky. Formation of anastomoses "side to side", "end to side", "end to end". colon mobilization. Resection of the small intestine. Appendectomy. Technique abdominal audit Possible ways of infection

Technique perform operations on the upper abdomen organs: stomach, duodenum. Anastomoses, gut sutures

Lesson # 22. Operations on organs upper abdomen

Form of activity - practical session.

questions:

1. Closure of perforated gastric ulcer, gastrotomy.
2. Gastrostomy for strain-Kader, Witzel, Toproveru.
3. Formation of the front and rear gastroanastomozov.
4. Gastrectomy Billroth I and modification.
5. Gastrectomy Billroth II and modifications. biliodigestive derivations gastroplasty

Lesson # 23. The operations on the abdominal organs.

Form of activity - practical session.


questions:

1. of the liver and biliary tract operation.
 2. Blockade of the round ligament liver.
 3. Suture liver injury, anatomical and atypical liver resection; the concept of surgical treatment of liver abscesses; portal hypertension.
 4. Cholecystectomy, cholecystostomy forming anastomoses biliodigestive
 5. The concept of a liver transplant.
 6. Operations in the spleen. The seam of the spleen, splenectomy, spleen autotransplantation in traumatic injuries.
- Operations in the pancreas. Accesses to the pancreas. The concept of operations in acute and chronic pancreatitis, cysts and abscesses.

Lesson # 24. The topography of the lumbar region and retroperitoneal space. Technique of surgical interventions in the retroperitoneal space. Form of activity - practical session.

questions:

1. Projection organs and large vessels retroperitoneum to the skin of the abdominal wall and the anterior lumbar region.
2. Medial and lateral sections, layers and their characterization, blood vessels, nerves. Weaknesses, cellular spaces.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

3. Regional lymph nodes.
4. Clinical anatomy of the kidneys, adrenal glands and ureters.
5. Topographic anatomy of the abdominal aorta, inferior vena cava, a spermatic cord and hemiazygos veins.
6. Formation of the thoracic duct.
7. Surgical instruments and equipment.
8. Perirenal blockade on Vishnevsky.
9. Spermatic cord, partial nephrectomy, nephropexy, pielotomiya, nephrectomy.
10. The concept of renal transplantation.
11. Suture ureter, plastic surgery for defects ureters.

Autopsy of inflammatory foci lumbar region and retroperitoneum.

Lesson # 25. The operations on the abdominal organs and retroperitoneum.

Form of activity - practical session.

questions:

1. Individual, Gender and age features of the structure of the pelvis and pelvic wall.
2. 2nd floor of a small basin. The course of the peritoneum in the male and female pelvis.
3. The fascia and cellular tissue of the pelvis area
4. Urinary and anal triangles: layers and their characteristics, neurovascular structures and cellular spaces.
5. External genitals of men.
6. The external genital organs of women.
7. The crotch portion of the rectum, especially arterial blood supply and venous drainage
8. Regional lymph nodes.

Lesson # 26. Topographic anatomy of the pelvis and perineum. Pelvic surgery and perineum.

Form of activity - practical session.


questions:

1. Surgical instruments and equipment.
2. Novokainovaya blockade of the spermatic cord and the round ligament of the uterus.
3. pudendal nerve blockade, blockade of intrapelvic Shkolnikov-Selivanov-Tsodyksu.
4. Operations in the bladder: Puncture bladder cystotomy, cystostomy, suturing the wound bladder.
5. Puncture a plastic bladder.
6. Operations on the prostate gland about the adenoma and prostate cancer.
7. culdocentesis, vaginotomy.
8. Operation when broken ectopic pregnancy.
9. surgery for hemorrhoids, rectal prolapse.
10. Operations on undescended testis; hydrocele and spermatic cord, with phimosis and paraofimosis.
11. Puncture on transactions with male and female infertility.
12. Upward and downward drainage of the parietal pelvic abscesses

Shape holding -SAMOSTOYATELNAYA WORK ISSUES

Topographic anatomy and operative surgery of the pelvis and perineum.

Operations on the internal genital organs of women and men. Colostomy in the colon. Drainage of cavity walls and pelvis cellular spaces

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Lesson # 27. Operative surgery and topographic anatomy of the spine.

Shape holding -SAMOSTOYATELNAYA WORK

ISSUES

Departments, external benchmarks.

The spine and the spinal canal.

Individual and age differences of the spine and spinal cord.

Spinal cord membranes, nerve roots. Skeletopy spinal segments.

Blood supply, venous drainage.

Anatomical and physiological study of surgical interventions.

Surgical instruments and equipment. A lumbar puncture.

Laminectomy. Surgical methods for spinal fixation in fractures.

Reconstructive and stabilizing spinal surgery.

Operations at anomalies of the spine, spinal hernia.

7. Research and development technologies used in practice


This type of work is not provided by the Curriculum (UP).

8. Forms of intermediate certification according to the results of practice


This type of work is not provided by the Curriculum (UP).

9. Educational-methodical and informational support of practice


1. Subject and methods for the study of topographic anatomy. Basic concepts of topographic anatomy: the region and its borders; external and internal benchmarks; projection of neurovascular structures and bodies; fascia cellular spaces.
2. The role of domestic scientists in the development of topographic anatomy and operative surgery: Pirogov, P.I.Dyakonov, N.I.Napalkov, V.N.Shevkunenko, A.N.Maksimov, V.V.Kovanov C .I.Spaskukotsky, Vishnevsky, N.I.Burdenko.
3. General principles of transplantation of organs and tissues.
4. Topography fronto-parietal-occipital region. Features of the blood supply to the covers of the cranial vault. Technique primary surgical treatment of wounds of the cranial vault.
5. Topography sinuses of the dura mater. The veins of the cranial vault and persons, their connection with intracranial veins and venous sinuses of the dura mater. The value in the spread of purulent infection.
6. Topography of the temporal region. Scheme craniocerebral topography. The projection of the middle meningeal artery. And osteoplastic decompressive craniotomy.
7. Topography mastoid region. Trepanation of the mastoid process. Possible complications.
8. Topography of parotid-masticatory area. The spread of purulent zatokov with mumps. Operations in acute purulent parotitis.
9. Topography buccal area. Features of venous outflow area of the face - venous anastomoses, their importance in the spread of purulent infection.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		


10. Topography of surface formations side face area. Features of venous outflow area of the face - venous anastomoses, their importance in the spread of purulent infection. Direction surgical incisions on the face.
11. The topography of the deep areas of the face. Fascia and cellular spaces. The spread of purulent zatokov face. Intervention in purulent processes in the face.
12. Area of sternocleidomastoid muscle. Topography of the cervical plexus. Vagosympathetic blockade on Vishnevsky.
13. Topography suprahyoid area. Submental and submandibular triangles. Submandibular gland. Autopsy submandibular cellulitis.
14. Topography of the submental and submandibular triangle. autopsy submandibular cellulitis.
15. Topography sleepy triangle of the neck. Reflex neck area. An autopsy phlegmon vaginal fascial primary neurovascular bundle.
16. Topography sternoclavicular-mastoid region. Vagosympathetic blockade on Vishnevsky.
17. The fascia and cellular tissue of the neck area. Autopsy submandibular cellulitis.
18. Fascia and neck kletchatochnyh space. Autopsy retropharyngeal cellulitis.
Classification of the fascia of the neck by Shevkunenko. Closed or open space of the neck ..
19. The fascia and cellular tissue of the neck area. Autopsy phlegmon fascial sheath main neurovascular bundle.
20. Topography of the larynx and cervical trachea. The upper and lower tracheostomy. Konikotomiya.
21. Topography of the pharynx and cervical esophagus. Autopsy pozadipischevodnoy cellulitis. Online access to the cervical esophagus.
22. Topography of the lateral triangle of the neck. Predlestnichnaya and interscalene gap. On-line access to the organs of the neck.
23. Topography staircase-vertebral triangle. Quick access to the common carotid artery in the scapular-tracheal and sleepy triangles.
24. The Topography thoracic duct and neck lymph nodes. Access to the common carotid artery in the sleepy triangle.
25. Topography of thoracic duct and lymph nodes in the neck. Autopsy previstseralnoy cellulitis neck.
26. Topography of the thyroid and parathyroid glands. Subtotal subcapsular strumectomy of Nikolaev.
27. Tracheostomy and its species. Possible complications arising from incorrect operation is performed.
28. The topography of the breast. Lymph path. Operations in purulent mastitis.
29. The topography of the breast. Lymph path. Sectoral resection and radical mastectomy.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		


30. Topography intercostal spaces. Primary surgical treatment of penetrating wounds of the chest wall. ribs subperiosteal resection
31. Topography of the diaphragm. Weaknesses of the diaphragm. Topographic-anatomic substantiation of education diaphragmatic hernias.
32. Topography of the pleura and lung. Segmental structure of the lungs. Online access to the organs of the chest cavity. Puncture and thoracostomy.
33. Topography of the pleura and lung. Segmental structure of the lungs. Puncture and thoracostomy.
34. The topography of the mediastinum. Vessels, nerves and nerve plexus posterior mediastinum. Surgical approaches to the anterior and posterior mediastinum.
35. Topography vessels, nerves and nerve plexus of the mediastinum. Reflex zones.
36. Topography of the heart and pericardium. Topography of the thoracic aorta. Pericardiocentesis.
37. Topography of thoracic trachea, bifurcation of the trachea and main bronchi. The lymph nodes of the chest cavity. Online access to the organs of the chest cavity.
38. Topography of the thoracic esophagus and vagus nerves. Line access to the thoracic esophagus.
39. Topography thoracic duct lymph nodes of the thoracic cavity. Puncture and drainage of the pleural cavity.
40. Fascia cellular spaces and mediastinum. The spread of purulent zatokov. Surgical approaches to the posterior mediastinum organs.
41. The topography of the anterolateral abdominal wall. Surgical approaches to the organs of the abdominal cavity.
42. Topography of the anterolateral abdominal wall. Topographic-anatomic substantiation of formation of umbilical hernia. Operations when umbilical hernias.
43. Topography of the inguinal canal. Topographic-anatomic substantiation of the emergence of acquired oblique inguinal hernia. Plastic inguinal canal of Girard-Spasokukotsky the weld Kimbarovskogo modification.
44. Topography of the inguinal canal. Topographic-anatomic substantiation of occurrence of direct inguinal hernia. Sliding hernia. Plastic inguinal canal by Bassini.
45. The topography of the inguinal canal. Topographic-anatomic substantiation of formation of congenital inguinal hernia. Features of treatment of hernia sac in congenital inguinal hernia.
46. The topography of the femoral canal, femoral hernia. Femoral and inguinal methods operations in femoral hernias.
47. The peritoneal cavity. Division by floors. Subdiaphragmatic space. Predzheludochnaya and stuffing bags. On-line access to the cavity omental.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		


48. The peritoneal cavity. Division by floors. The topography of the pancreas. Quick access to the pancreas.
49. Topography of the liver, its segmental structure. Hepatoduodenal bunch. Methods for stopping bleeding in liver damage. Liver suturing wounds.
50. The topography of the gallbladder, biliary tract and hepatoduodenal ligament. Quick access to the gallbladder. Operations: cholecystendysis, cholecystectomy, choledochotomy.
51. Topography of the abdominal portion of the esophagus and stomach. Closure of perforated gastric ulcer.
52. Topography of the abdominal portion of the esophagus and stomach. Types gastrojejunostomy.
A vicious circle and the reasons for its formation.
53. Topography of the abdominal portion of the esophagus and stomach. Gastrectomy Billroth-I, Billroth-II to modify the Hofmeister-Finsterer.
54. Topography of duodenum and the duodenal-jejunal flexure. processing methods duodenal stump with gastrectomy.
55. Topography of the spleen. Splenectomy.
56. Topography of the packing bags. Gland hole. On-line access to the cavity omental.
57. Topography of the packing bags. The topography of the pancreas. Quick access to the pancreas.
58. Topography of the small intestine. Rule Gubarev. small intestine revision method.
59. Topography of the small intestine. Mesenteric sinuses (sinus). Revision of the abdominal cavity. resection technique of the small intestine and the imposition of intestinal anastomosis means the "end-to-end" and "side-to-side."
60. Topography of the cecum and the appendix. Surgical approaches and appendectomy technique.
61. Topography of the colon. Colostomy. Operation overlay unnatural anus by the method Maidla.
62. Topography of the small and large intestines. Technique audit abdominal cavity for bleeding and damage the hollow body. Intestinal seams, general requirements for the imposition of intestinal sutures. Closure of penetrating wounds of the small intestine.
63. Topography of kidneys, the fixing apparatus kidneys. Decapsulation. Nephropexy.
64. Topography of the lumbar region. Weak spots. Fascia and cellular tissue formation retroperitoneal space. Perirenal blockade, possible complications.
65. Topography of kidneys, ureters and adrenal glands. Surgical approaches to the kidneys and ureters.
66. Topography of the abdominal aorta and inferior vena cava. Nerve plexus, lymph nodes, retroperitoneal space. Surgical approaches to the kidneys and ureters.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

67. Progress in the peritoneum male and female pelvis. Drainage vesico-rectal and utero-rectal recesses.
68. Topography of female pelvic peritoneal department. Drainage of the utero-rectal cavity. The puncture of the abdominal cavity through the posterior vaginal fornix.
69. Topography of female pelvic peritoneal department. The topography of the uterus with appendages. Surgery for an ectopic pregnancy.
70. Topography of the bladder. Predpuzyrnoe retrovesical and cellular spaces. Puncture of the bladder.
71. The topography of the bladder, urethra, prostate, vas deferens. Operations in wounds of the bladder. Methods drainage predpuzyrnogo cellular spaces.
72. fascial-cellular spaces of a small basin. The spread of purulent zatokov. Blockade of the lumbar and sacral plexus of Shkolnikov-Selivanov.
73. Topography of the rectum. Pozadipryamokishechnoe cellular spaces. The spread of purulent zatokov. Surgery for injuries of the rectum.
74. Topography scapular region. Arterial anastomoses and development of collateral circulation in the axillary artery occlusion.
75. Topography of the subclavian area. Subclavian and axillary lymph nodes. Opening and drainage subpektoralnoy cellulitis.
76. Topography and the deltoid region of the shoulder joint. Puncture of the shoulder joint.
77. Topography of the shoulder joint. Puncture and arthrotomy of the shoulder joint.
78. The topography of the axilla. Online access to the neurovascular bundle. Exposure of the axillary artery.
79. The topography of the anterior-medial shoulder area. Amputation of the shoulder to the middle third of the level.
80. The topography of the back shoulder region. The doctrine of the amputation. Classification of amputations Term: primary, secondary and repeat (reamputatsiya). Amputation of the shoulder in the middle third.
81. Topography of the rear area of the elbow. The elbow joint. Puncture and arthrotomy of elbow joint.
82. The topography of the anterior region of the forearm. Exposure of the radial artery in the lower third of the forearm. Fascial-cellular spaces Pirogov. The spread of purulent infection.
83. The topography of the anterior region of the forearm. Online access to the ulnar neurovascular bundle.
84. Topography of the median bed of palm. Autopsy subgaleal cellulitis median lodge palm on the war-Yasenetsky.
85. Topography of the median bed of palm. Operations during intraosseous and subungual panaritiums.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

86. Topography of the median bed of palm. Operations in purulent tenosynovitis II, III and IV fingers.
87. Topography lateral bed palm. Operations in purulent tenosynovitis I finger.
88. Topography of the gluteal region. The spread of purulent zatokov podfastsialnogo cellular spaces of the gluteal region. Autopsy podfastsialnoy cellulitis gluteal region.
89. The topography of the femoral triangle. Exposure of the femoral artery and femoral vein below the inguinal ligament.
90. Topography of blood vessels and nerves of the femoral triangle. Exposure of the femoral artery in the femoral triangle.
91. Topography of the obturator canal. The spread of purulent zatokov fastsialno-kletchatochnyh formations. Drainage cellular spaces of the pelvic Buyalsky-McWhorter.
92. Topography of the medial thigh bed. Leading channel. The seam of the vessel Karrelyu-Morozova.
93. The topography of the sciatic nerve in the gluteal region and the rear region of the thigh. Exposure of the sciatic nerve in the gluteal region.
94. Topography of the knee joint. Osteoplastic amputation Gritti-Shimanovsky. Principles of formation of the supporting stump.
95. Topography of the popliteal fossa. The development of collateral circulation in the popliteal artery occlusion. The seam of the vessel by Carrel-Morozova.
96. Topography of the popliteal fossa. The development of collateral circulation in the popliteal artery occlusion. Cone-circular amputation Pirogov.
97. The topography of the front region of the tibia.
98. Classification of limb amputations in the form of soft tissue dissection. Fastsioplasticheskaya amputation of the lower leg.
99. The rear region of the tibia topography. Goleno-popliteal channel. Osteoplastic amputation of the lower leg of Pirogov.
100. Topography of the front area of the ankle and rear foot. Exposure of dorsal artery of foot.
101. Field of the medial malleolus. The medial malleolar channel. Purulent zatokov propagation path of the medial malleolar channel.
102. Topography of the area of the sole. Heel and plantar channels. Autopsy subgaleal cellulitis soles on the war-Yasenetsky.


Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

10. Self study TRAINEES

Content requirements, conditions and procedures for the organization of independent work of students, taking into account forms of training are determined in accordance with the "Regulation on the organization of independent work of students," approved by the Scientific Council of USU (Minutes №8 / 268 from 26.03.2019g.).

Full-time form of education

Name sections and topics	Type of individual work (study of educational material, problem solving, essay, report, control work, preparation for taking tests, exams, etc.).	Volume in hours	form of control (Check problem solving, essay, etc.).
Theme 1. Methods of study of topographic anatomy. Total surgical technique.	<i>elaboration of educational material toadavernom material</i>	one	<i>oral check at interview</i>
Theme 8. Amputation and disarticulation of limbs.	<i>elaboration of educational material toadavernom material</i>	2	<i>oral check at interview</i>
Theme 18. Topography anterolateral abdominal wall. Weak spots.	<i>elaboration of educational material toadavernom material</i>	6	<i>oral check at interview</i>
Theme 20. Topographical anatomy of the upper abdominal organs	<i>elaboration of educational material toadavernom material</i>	6	<i>oral check at interview</i>
Theme 21. Topographic anatomy of the organs of the lower floor of the abdominal cavity. General principles of imposition of intestinal sutures. perform basic equipment	<i>elaboration of educational material toadavernom material</i>	6	<i>abstract check</i>
Theme 26 Topographic anatomy of the pelvis and perineum. Pelvic surgery and perineum.	<i>elaboration of educational material toadavernom material</i>	6	<i>oral check at interview</i>
Theme 27. Operative surgery and topographic anatomy of the spine.	<i>elaboration of educational material toadavernom material</i>	12	<i>oral check at interview</i>
in total	<i>elaboration of educational material toadavernom material</i>	39	<i>oral check at interview</i>

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

c) Professional databases, information and reference systems

1. Electronic library systems:

1.1. IPRbooks [Electronic resource]: electronic library system / group of companies IPR Media. - Electron. Dan. - Saratov, [2019]. - Access mode: <http://www.iprbookshop.ru>.

1.2. YURAYT [Electronic resource]: electronic library system / LLC Electronic publishing house YURAYT. - Electron. Dan. - Moscow, [2019]. - Access mode: <https://www.biblio-online.ru>.

1.3. Student consultant [Electronic resource]: electronic library system / Polytekhresurs LLC. - Electron. Dan. - Moscow, [2019]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html>.

1.4. Lan [Electronic resource]: electronic library system / EBS Lan. - Electron. Dan. - St. Petersburg, [2019]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html> <https://e.lanbook.com>.

1.5. Znaniy.com [Electronic resource]: electronic library system / Znaniy LLC. - Electron. Dan. - Moscow, [2019]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html> <http://znaniy.com>.

2. ConsultantPlus [Electronic resource]: reference legal system. / Company "Consultant Plus" - Electron. Dan. - Moscow: ConsultantPlus, [2019].

3. Database of periodicals [Electronic resource]: electronic journals / LLC IVIS. - Electron. Dan. - Moscow, [2019]. - Access mode: <https://dlib.eastview.com/browse/udb/12>.

4. National Electronic Library [Electronic resource]: electronic library. - Electron. Dan. - Moscow, [2019]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html> <https://neb.rf>.

5. Electronic library of dissertations of the RSL [Electronic resource]: electronic library / FGBU RSL. - Electron. Dan. - Moscow, [2019]. - Access mode: <https://dvs.rsl.ru> <http://www.studentlibrary.ru/pages/catalogue.html> <https://e.lanbook.com/>.

6. Federal information and educational portals:

6.1. Information system Single window of access to educational resources. Access mode: <http://window.edu.ru>

6.2. <https://e.lanbook.com/> Federal portal Russian education. Access mode: <http://www.edu.ru>


7. Educational resources of UISU:

7.1. Electronic library of UISU. Access mode: <http://lib.ulsu.ru/MegaPro/Web>

7.2. UISU educational portal. Access mode: <http://edu.ulsu.ru> Agreed:

Agreed:

__Zamestitel chief UITiT __ / __ AV Klochkova .  __05.06.2019.__

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

12. Logistics practice

- For practical classes.

1 ... № 8-1.The audience for practical training, monitoring and intermediate certification, group and individual counseling. The room is staffed mannequins for pleural puncture, puncture of joints, to provide resuscitation and admission Geynliha with airway foreign body. There is an extended set of simulation wounds.

There 3D- anatomical atlas.

(432017, Ulyanovsk region, Ulyanovsk, Leninsky district, street. Architect Livchaka d. 2/1)

2 ... №11-1.The audience for seminars and workshops, monitoring and intermediate certification, group and individual counseling. The room is staffed by student board and a set of furniture (seats - 15). Stand "will expeditiously" - 1 piece, 3-D anatomical atlas, Full skeleton, mannequins: puncture of the pleural cavity, the simulator for knitting units

(432017, Ulyanovsk region, Ulyanovsk, Leninsky district, street. Architect Livchaka d. 2/1)

- For lectures.

1 ... № 4. Assembly Hall. Auditorium for lectures, seminars and workshops, monitoring and intermediate certification, group and individual counseling. The room is staffed by student board and a set of furniture (seats - 372). Set of multimedia equipment: a computer with Internet access, screen, projector. Wi-Fi access to the network "Internet", EIOS, DEC.

(432048, Ulyanovsk region, Ulyanovsk, rn Rail, str. University Embankment, d. 1, Bldg. 6 (casing 4)

2 ... № 332. Auditorium for lectures, seminars and workshops, monitoring and intermediate certification, group and individual counseling. The room is staffed by student board and a set of furniture (seats - 200). Set of multimedia equipment: a computer with Internet access, screen, projector. Wi-Fi access to the network "Internet", EIOS, DEC.

(432017, Ulyanovsk region., Ulyanovsk, st. Sviyaga embankment, d. 106 (2 building)


3 №209.Auditorium for lectures, seminars and workshops, monitoring and intermediate certification, group and individual counseling. The room is staffed by student board and a set of furniture (seats - 187). Set of portable multimedia equipment: laptop, multimedia projector, screen, speakers kolonki. Wi-Fi access to the Internet, EIOS, EBS

(432017, Ulyanovsk region, Ulyanovsk, Leninsky district, street. Architect Livchaka d. 2/1)

- For self-study.

1 ... № 22. Service Department of the Institute of Medicine, Ecology and Physical Culture Scientific Library of the zone for independent work, Wi-Fi access to EIOS, DEC. The audience is equipped with specialized furniture to 42 seats and equipped with computers with access to the network "Internet", EIOS, EBS. Ploschad 96.6 sq.m.

(432017, Ulyanovsk region., Ulyanovsk, st. Sviyaga embankment, d. 106 (2 building)

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

2number 237 reading room, a research library with an area for self-study, Wi-Fi access to EIOS, DEC. The audience is equipped with specialized furniture for 80 seats and is equipped with computers with access to the network "Internet", EIOS, EBS, screen and projector. Area 220.39 sq.m.432017, Ulyanovsk region., Ulyanovsk, st. Embankment Sviyagi, d. 106 (1 case).

3№11-2.The audience for seminars and workshops, monitoring and intermediate certification, group and individual counseling. The room is staffed by student board and a set of furniture (seats - 15). Stand "will expeditiously" - 1 piece, 3-D anatomical atlas, Full skeleton, mannequins: puncture of the pleural cavity, the simulator for knitting knots. (432017, Ulyanovsk region, Ulyanovsk, Leninsky district, street. Architect Livchaka d. 2/1)


13. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

17. for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a special translator; individual tasks and consultations.
18. for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
19. for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations."
20. if it is necessary to use partially or exclusively remote educational technologies in the educational process, the organization of work of teaching staff with students with disabilities is provided in an electronic information and educational environment, taking into account their individual psychological characteristics

Developer: Associate Professor, Department of General and Operative Surgery with Topographic Anatomy and Dentistry course Ph.D., Associate Professor Vitaliy Gnoevoy






Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

LIST OF CHANGES of 1

Educational plan of discipline ” **Topographic anatomy and operative surgery**”

Speciality 31.05.01. «General medicine»

№	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	SMOLKINA A.V.		30.08.2020
2	Introduction of changes to item A) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	SMOLKINA A.V.		30.08.2020

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Appendix 1

11 "Educational, methodological and information support of the discipline"

c) Professional databases, information and reference systems

1. Electronic library systems:

1.1. IPRbooks: electronic library system: website / group of companies IPR Media. - Saratov, [2020]. - URL: <http://www.iprbookshop.ru>. - Access mode: for registered. users. - Text: electronic.

1.2. YURAYT: electronic library system: website / LLC Electronic publishing house YURAYT. - Moscow, [2020]. - URL: <https://www.biblio-online.ru>. - Access mode: for registered. users. - Text: electronic.

1.3. Student advisor: electronic library system: website / Polytekhresurs LLC. - Moscow, [2020]. - URL: http://www.studentlibrary.ru/catalogue/switch_kit/x2019-128.html. - Access mode: for registered. users. - Text: electronic.

1.4. Lan: electronic library system: website / EBS Lan. - St. Petersburg, [2020]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <https://e.lanbook.com>. - Access mode: for registered. users. - Text: electronic.

1.5. Znaniy.com: electronic library system: website / Znaniy LLC. - Moscow, [2020]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <http://znaniy.com>. - Access mode: for registered. users. - Text: electronic.

1.6. Clinical Collection: collection for medical universities, clinics, medical libraries // EBSCOhost: [portal]. - URL: <http://web.a.ebscohost.com/ehost/search/advanced?vid=1&sid=e3ddfb99-a1a7-46dd-a6eb-2185f3e0876a%40sessionmgr4008>. - Access mode: for authorization users. - Text: electronic.

2. **ConsultantPlus** [Electronic resource]: reference legal system. / LLC "Consultant Plus" - Electron. Dan. - Moscow: ConsultantPlus, [2020].

3. Databases of periodicals:

3.1. Database of periodicals: electronic journals / LLC IVIS. - Moscow, [2020]. - URL: <https://dlib.eastview.com/browse/udb/12>. - Access mode: for authorization users. - Text: electronic.

3.2. eLIBRARY.RU: scientific electronic library: site / Scientific Electronic Library LLC. - Moscow, [2020]. - URL: <http://elibrary.ru>. - Access mode: for authorization users. - Text: electronic

3.3. "Grebennikon": electronic library / ID Grebennikov. - Moscow, [2020]. - URL: <https://id2.action-media.ru/Personal/Products>. - Access mode: for authorization. users. - Text: electronic.

4. **National Electronic Library**: Electronic Library: Federal State Information System: website / Ministry of Culture of the Russian Federation; RSL. - Moscow, [2020]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <https://neb.rf>. - Access mode: for users of the scientific library. - Text: electronic.

5. **SMART Imagebase** // EBSCOhost: [portal]. - URL: <https://ebsco.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741>. - Access mode: for authorization. users. - Image: electronic.

6. Federal information and educational portals:

6.1. Single window of access to educational resources: federal portal / founder of FGAOU DPO TsRGOP and IT. - URL: <http://window.edu.ru/>. - Text: electronic.

6.2. Error! Invalid hyperlink object. Russian education: federal portal / founder of FGAOU DPO TsRGOP and IT. - URL: <http://www.edu.ru>. - Text: electronic.


7. Educational resources of UISU:

7.1. Electronic library of UISU: module ABIS Mega-PRO / Data Express LLC. - URL: <http://lib.ulsu.ru/MegaPro/Web>. - Access mode: for users of the scientific library. - Text: electronic.

7.2. UISU educational portal. - URL: <http://edu.ulsu.ru>. - Access mode: for register. users. - Text: electronic

Agreed:



__ Zamestitel chief UITiT __ / __ AV Klochkova.  / __ 05.06.2020. __


Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

LIST OF CHANGES of 2

Educational plan of discipline ” **Topographic anatomy and operative surgery**”

Speciality 31.05.01. «General medicine»

№	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	Smolkina A.V.		31.08.2021
2	Introduction of changes to item A) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	Smolkina A.V.		31.08.2021

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Appendix 1

11 "Educational, methodological and information support of the discipline"

c) Professional databases, information and reference systems

1. Electronic library systems:

- 1.1. IPRbooks: electronic library system: website / group of companies IPR Media. - Saratov, [2021]. - URL: <http://www.iprbookshop.ru>. - Access mode: for registered. users. - Text: electronic.
- 1.2. YURAYT: electronic library system: website / LLC Electronic publishing house YURAYT. - Moscow, [2021]. - URL: <https://urait.ru>. - Access mode: for registered. users. - Text: electronic.
- 1.3. Student advisor: electronic library system: website / Polytekhresurs LLC. - Moscow, [2021]. - URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. - Access mode: for registered. users. - Text: electronic.
- 1.4. Doctor's consultant: electronic library system: website / LLC Graduate School of Health Organization and Management-Comprehensive Medical Consulting. - Moscow, [2021]. - URL: <https://www.rosmedlib.ru>. - Access mode: for registered. users. - Text: electronic.
- 1.5. Large medical library: electronic library system: website / LLC Bukap. - Tomsk, [2021]. - URL: <https://www.books-up.ru/ru/library/>. - Access mode: for registered. users. - Text: electronic.
- 1.6. Lan: electronic library system: website / EBS Lan. - St. Petersburg, [2021]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <https://e.lanbook.com>. - Access mode: for registered. users. - Text: electronic.
- 1.7. Znaniy.com: electronic library system: website / Znaniy LLC. - Moscow, [2021]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <http://znaniy.com>. - Access mode: for registered. users. - Text: electronic.
- 1.8. Clinical Collection: collection for medical universities, clinics, medical libraries // EBSCOhost: [portal]. - URL: <http://web.b.ebscohost.com/ehost/search/advanced?vid=1&sid=9f57a3e1-1191-414b-8763-e97828f9f7e1%40sessionmgr102>. - Access mode: for authorization. users. - Text: electronic.
- 1.9. Russian as a foreign language: electronic educational resource for foreign students: website / IPR Media LLC. - Saratov, [2021]. - URL: <https://ros-edu.ru>. - Access mode: for registered. users. - Text: electronic

2. Konsul'tantPlyus [Elektronnyy resurs]: spravochnaya pravovaya sistema. /OOO «Konsul'tant Plyus» - Elektron. dan. - Moskva : Konsul'tantPlyus, [2021].

3. Bazy dannykh periodicheskikh izdaniy:

- 3.1. Baza dannykh periodicheskikh izdaniy : elektronnyye zhurnaly / OOO IVIS. - Moskva, [2021]. - URL: <https://dlib.eastview.com/browse/udb/12>. - Rezhim dostupa : dlya avtoriz. pol'zovateley. - Tekst : elektronnyy.
- 3.2. eLIBRARY.RU: nauchnaya elektronnyaya biblioteka : sayt / OOO Nauchnaya Elektronnyaya Biblioteka. - Moskva, [2021]. - URL: <http://elibrary.ru>. - Rezhim dostupa : dlya avtoriz. pol'zovateley. - Tekst : elektronnyy
- 3.3. «Grebennikon» : elektronnyaya biblioteka / ID Grebennikov. - Moskva, [2021]. - URL: <https://id2.action-media.ru/Personal/Products>. - Rezhim dostupa : dlya avtoriz. pol'zovateley. - Tekst : elektronnyy.

4. Natsional'naya elektronnyaya biblioteka : elektronnyaya biblioteka : federal'naya gosudarstvennaya informatsionnaya sistema : sayt / Ministerstvo kul'tury RF ; RGB. - Moskva, [2021]. - URL: <http://www.studentlibrary.ru/pages/catalogue.html> <https://neb.rf>. - Rezhim dostupa : dlya pol'zovateley nauchnoy biblioteki. - Tekst : elektronnyy.

5. SMART Imagebase // EBSCOhost : [portal]. - URL:

<https://ebSCO.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741>. - Rezhim dostupa : dlya avtoriz. pol'zovateley. - Izobrazheniye : elektronnyy.

6. Federal'nyye informatsionno-obrazovatel'nyye portaly:


- 6.1. Yedinoye okno dostupa k obrazovatel'nyim resursam : federal'nyy portal / uchreditel' FGAOU DPO TSRGOP i IT. - URL: <http://window.edu.ru/>. - Tekst : elektronnyy.
- 6.2. Oshibka! Nedopustimyy ob'yekt giperssylki. Rossiyskoye obrazovaniye : federal'nyy portal / uchreditel' FGAOU DPO TSRGOP i IT. - URL: <http://www.edu.ru>. - Tekst : elektronnyy.

7. Obrazovatel'nyye resursy UIGU:

- 7.1. Elektronnyaya biblioteka UIGU : modul' ABIS Mega-PRO / OOO «Data Ekspress». - URL: <http://lib.ulsu.ru/MegaPro/Web>. - Rezhim dostupa : dlya pol'zovateley nauchnoy biblioteki. - Tekst : elektronnyy.

Soglasovano:

___ Zamestitel' nachal'nika UITiT ___ / Klochkova A.V. ___ /  ___ 05.05.2021 ___

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Appendix 2

11 "Educational, methodological and information support of the discipline"

а) Список рекомендуемой литературы по дисциплине «Топографическая анатомия и оперативная хирургия»

основная:

1. Николаев, А. В. Топографическая анатомия и оперативная хирургия : учебник / А. В. Николаев. - 3-е изд., испр. и доп. - Москва : ГЭОТАР-Медиа, 2019. - 736 с. : цв. ил. - 736 с. - ISBN 978-5-9704-5137-3. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970451373.html>
2. Топографическая анатомия и оперативная хирургия. Том 1 : учебник / Ю.М. Лопухин, В.И. Сергиенко, Э.А. Петросян, И.В. Фраучи; Лопухин Ю.М.; Сергиенко В.И.; Петросян Э.А.; Фраучи И.В. - Москва : ГЭОТАР-Медиа, 2019. - 832 с. - URL: <https://www.studentlibrary.ru/book/ISBN9785970451779.html> . - Режим доступа: ЭБС "Консультант студента"; по подписке. - ISBN ISBN 978-5-9704-5177-9
3. Топографическая анатомия и оперативная хирургия. Том 2 : учебник / Ю.М. Лопухин, В.И. Сергиенко, Э.А. Петросян, И.В. Фраучи; Лопухин Ю.М.; Сергиенко В.И.; Петросян Э.А.; Фраучи И.В. - Москва : ГЭОТАР-Медиа, 2019. - 592 с. - URL: <https://www.studentlibrary.ru/book/ISBN9785970451786.html> . - Режим доступа: ЭБС "Консультант студента"; по подписке. - ISBN ISBN 978-5-9704-5178-6.

дополнительная:

1. Сапин М.Р., Анатомия и топография нервной системы : учеб. пособие / М. Р. Сапин, Д. Б. Никитюк, С. В. Клочкова. - М. : ГЭОТАР-Медиа, 2016. - 192 с. - ISBN 978-5-9704-3504-5 - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <http://www.studentlibrary.ru/book/ISBN9785970435045.html>
2. Андреев И.Д., Топографическая анатомия и оперативная хирургия детского возраста / [И.Д. Андреев и др.] ; под ред. С. С. Дыдыкина, Д.А. Морозова - М. : ГЭОТАР-Медиа, 2018. - 176 с. - ISBN 978-5-9704-4334-7 - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <http://www.studentlibrary.ru/book/ISBN9785970443347.html>
3. Каган И.И., Топографическая анатомия и оперативная хирургия. В 2-х томах. Том 2 : учебник / Под ред. И.И. Кагана, И.Д. Кирпатовского - М. : ГЭОТАР-Медиа, 2012. - 576 с. - ISBN 978-5-9704-2154-3 - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <http://www.studentlibrary.ru/book/ISBN9785970421543.html>
4. Лопухин Ю.М., Практикум по оперативной хирургии : учеб. пособие / Лопухин Ю. М., Владимиров В. Г., Журавлев А. Г. - М. : ГЭОТАР-Медиа, 2013. - 400 с. - ISBN 978-5-9704-2626-5 - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <http://www.studentlibrary.ru/book/ISBN9785970426265.html>
5. Большаков О.П., Оперативная хирургия : учебное пособие по мануальным навыкам / под ред. А. А. Воробьева, И. И. Кагана. - М. : ГЭОТАР-Медиа, 2015. - 688 с. - ISBN 978-5-9704-3354-6 - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <http://www.studentlibrary.ru/book/ISBN9785970433546.html>

учебно-методическая (разработанная НПР, реализующими ОПОП ВО) литература:

1. Смолькина А. В. Методические указания для практических занятий по дисциплине «Топографическая анатомия и оперативная хирургия» / А. В. Смолькина, Гноевых Вит. В.; УлГУ, ИМЭиФК, Мед. фак. - Ульяновск : УлГУ, 2019. - Загл. с экрана; Неопубликованный ресурс. - Электрон. текстовые дан. (1 файл : 635 КБ). - Текст : электронный. - <http://lib.ulsu.ru/MegaPro/Download/MObject/4691>
2. Смолькина А. В. Методические указания для организации самостоятельной работы по дисциплине «Топографическая анатомия и оперативная хирургия» / А. В. Смолькина, Гноевых Вит. В.; УлГУ, ИМЭиФК, Мед. фак. - Ульяновск : УлГУ, 2019. - Загл. с экрана; Неопубликованный ресурс. - Электрон. текстовые дан. (1 файл : 519 КБ). - Текст : электронный. <http://lib.ulsu.ru/MegaPro/Download/MObject/4692>
3. Смолькина А. В. Методические указания для преподавателей по проведению практических занятий по дисциплине «Топографическая анатомия и оперативная хирургия» / А. В. Смолькина, Гноевых Вит. В.; УлГУ, ИМЭиФК, Мед. фак. - Ульяновск : УлГУ, 2019. - Загл. с экрана; Неопубликованный ресурс. - Электрон. текстовые дан. (1 файл : 502 КБ). - Текст : электронный. <http://lib.ulsu.ru/MegaPro/Download/MObject/4697>
4. Гноевых В. В. Техника выполнения практических навыков в симуляционном центре : электронный учебный курс / В. В. Гноевых, А. В. Смолькина, А. В. Манохин. - Ульяновск : УлГУ, 2018. - . - URL: <https://portal.ulsu.ru/course/view.php?id=93906>. - Режим доступа: Портал ЭИОС УлГУ. - Текст : электронный. <https://portal.ulsu.ru/course/view.php?id=93906>

Согласовано:


  

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Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

LIST OF CHANGES of 3

Educational plan of discipline ” **Topographic anatomy and operative surgery**”

Speciality 31.05.01. «General medicine»

№	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item a) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	Smolkina A.V.		31.08.2022
2	Introduction of changes to item c) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	Smolkina A.V.		31.08.2022

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Appendix 1

11. TRAINING methodical and information Maintenance

Disciplines Topographic anatomy and surgical surgery by direction

a) List of recommended literature

Main literature

- 1 Nikolaev, A. V. Topographic Anatomy and Operative Surgery : textbook / A. V. Nikolaev. - М. : GEOTAR-Media, 2021. - 672 p. - 672 с. - ISBN 978-5-9704-6095-5. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970460955.html>
- 2 Гостищев, В. К. General surgery / The manual. - М. : GEOTAR-Media, 2019. - 220 p. - 220 с. - ISBN 978-5-9704-4984-4. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970449844.html>

Additional literature

1 Методические рекомендации по освоению практических навыков и умений студентами iii – iv курсов по топографической анатомии и оперативной хирургии (на английском языке) = Guideline for the development of practical skills of students, iii – iv courses, in topographic anatomy and operative surgery (english variant) / С. А. Зурнаджан, И. В. Гречухин, А. С. Айрапетов, О. В. Мусатов. - Астрахань : Астраханский ГМУ, 2017. - 40 с. - ISBN 9785442403275. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/metodicheskie-rekomendacii-po-osvoeniyu-prakticheskikh-navykov-i-umenij-studentami-iii-iv-kursov-po-topograficheskoy-anatomii-i-operativnoj-hirurgii-na-anglijskom-yazyke-11254677/>

2 Dudykin, S. S. Topographic Anatomy and Operative Surgery. Workbook. In 2 parts. Part II / Edited by S. S. Dudykin. - Москва : ГЭОТАР-Медиа, 2022. - 120 с. - ISBN 978-5-9704-6452-6. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970464526.html>

3 Dudykin, S. S. Topographic Anatomy and Operative Surgery. Workbook. In 2 parts. Part I / Edited by S. S. Dudykin. - Москва : ГЭОТАР-Медиа, 2022. - 120 с. - ISBN 978-5-9704-6451-9. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970464519.html>


4 Topographic and clinical anatomy of the human body : the teaching aid for foreign students / I. I. Kagan, S. N. Lyashchenko, A. O. Mironchev - Москва : ГЭОТАР-Медиа, . - ISBN 978-5-9704-6560-8. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970465608.html>

Educational literature

1 Smolkina A. V.

Methodical instructions for organization of independent work for the disciplin «Topographic anatomy and operative surgery» for specialty 31.05.01 «Medical business» and 31.05.02 «Pediatrics» / A. V. Smolkina, Gnoevikh Vitaly V.; Ulyanovsk State University. - Ulyanovsk : UISU, 2022. - 34 p. - Неопубликованный ресурс; На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/13006> . - Режим доступа: ЭБС УлГУ. - Текст : электронный.

□ Smolkina A. V.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		


Methodical instructions for organization of practical exercise on the discipline «Topographic anatomy and operative surgery» for specialty 31.05.01 «Medical business» and 31.05.02 «Pediatrics» / A. V. Smolkina, Gnoevikh Vitaly V.; Ulyanovsk State University. - Ulyanovsk :UISU, 2022. - 51 p. - Неопубликованный ресурс; Наангл. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/13005> . - Режим доступа: ЭБСУЛГУ. - Текст :электронный.

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Main Librarian Смагальников Стас 11.05.2022

Software:

SPS Consultant Plus, NEL RF,
The electronic library system IPRBooks,
AILS "Megapro",
System " Antiplagiat.HIGHER EDUCATIONAL»,
Microsoft Windows,
Microsoft Office 2016,
«My Office Is Standard»,
Automated information system "Vitakor RMIS»,
Academic Basic Statistica for Windows 13

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

Appendix 2

Профессиональные базы данных, информационно-справочные системы

1. Электронно-библиотечные системы:

1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». - Саратов, [2022]. – URL: <http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство ЮРАЙТ. – Москва, [2022]. - URL: <https://ura.it.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО Политехресурс. – Москва, [2022]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг. – Москва, [2022]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.5. Большая медицинская библиотека : электронно-библиотечная система : сайт / ООО Букап. – Томск, [2022]. – URL: <https://www.books-up.ru/ru/library/> . – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС Лань. – Санкт-Петербург, [2022]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.7. ЭБС Znanium.com : электронно-библиотечная система : сайт / ООО Знаниум. - Москва, [2022]. - URL: <http://znanium.com> . – Режим доступа : для зарегистрир. пользователей. - Текст : электронный.

1.8. Clinical Collection : научно-информационная база данных EBSCO // EBSCOhost : [портал]. – URL: <http://web.b.ebscohost.com/ehost/search/advanced?vid=1&sid=9f57a3e1-1191-414b-8763-e97828f9f7e1%40sessionmgr102> . – Режим доступа : для авториз. пользователей. – Текст : электронный.

1.9. База данных «Русский как иностранный» : электронно-образовательный ресурс для иностранных студентов : сайт / ООО Компания «Ай Пи Ар Медиа». – Саратов, [2022]. – URL: <https://ros-edu.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

2. КонсультантПлюс [Электронный ресурс]: справочная правовая система. /ООО «Консультант Плюс» - Электрон. дан. - Москва : КонсультантПлюс, [2022].

3. Базы данных периодических изданий:


3.1. База данных периодических изданий EastView : электронные журналы / ООО ИВИС. - Москва, [2022]. – URL: <https://dlib.eastview.com/browse/udb/12>. – Режим доступа : для авториз. пользователей. – Текст : электронный.

3.2. eLIBRARY.RU: научная электронная библиотека : сайт / ООО Научная Электронная Библиотека. – Москва, [2022]. – URL: <http://elibrary.ru>. – Режим доступа : для авториз. пользователей. – Текст : электронный

3.3. Электронная библиотека «Издательского дома «Гребенников» (Grebinnikon) : электронная библиотека / ООО ИД Гребенников. – Москва, [2022]. – URL: <https://id2.action-media.ru/Personal/Products>. – Режим доступа : для авториз. пользователей. – Текст : электронный.

4. Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. – Москва, [2022]. – URL: <https://нэб.рф>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

5. SMART Imagebase : научно-информационная база данных EBSCO // EBSCOhost : [портал]. – URL: <https://ebSCO.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741>. – Режим доступа : для авториз. пользователей. – Изображение : электронные.

Ministry of Science and Higher Education of the Russian Federation Ulyanovsk State University	Форма	
F- Discipline work program		

6. Федеральные информационно-образовательные порталы:

6.1. Единое окно доступа к образовательным ресурсам : федеральный портал . – URL: <http://window.edu.ru/> . – Текст : электронный.

6.2. Российское образование : федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.

7. Образовательные ресурсы УлГУ:

7.1. Электронная библиотечная система УлГУ : модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». – URL: <http://lib.ulsu.ru/MegaPro/Web>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

СОГЛАСОВАНО:

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