Topic Plan of Practical Classes on Clinical Anatomy and Operative Surgery for Students of International Faculty

N⁰	The topics	The studying questions	The list
0 12	of practical classes	The studying questions	of practical skills
1.	Surgical instruments, sutures and dressings. Primary surgical treatment of penetrating and non-penetrating injuries of the cerebral part of the head. Surgical anatomy of the inner base of the skull.	The subject and tasks of topographical anatomy and operative surgery. Acquaintance with the departments of the chair. Arrangement and equipment of operating department. Classification of surgical operations. Groups of surgical instruments. Technique of disconnection and connection of soft tissues. Topographical anatomy of fronto-parieto-occipital region of head. Blood supply of brain, venous outflow. Non penetrating and penetrating skull injury. Primary surgical processing wounds of brain department of the head. Base of the skull. Meninges of brain. Topographical anatomy of anterior, middle and posterior cranial fosses. Localization of cranial nerves, vessels of base of brain. Blood supply of brain Intermeningeal spaces. Sinuses of dura mater of brain. The sinuses of the hard brain covering and their connections with veins of the face and vault of the skull. Special surgical instruments.	 Ownership by technique of disconnection and connection of the tissues. Correct using of surgical instruments. Tying of surgical knots. Preparation layer- by-layer of studying regions. Finding places of way out of cranial nerves on skull.
2.	Clinical anatomy of the temporal area and the area of the mastoid process. Anthrotomy, bone- plastic and decompression trepanation of the skull.	Topographical anatomy of temporal of head. Kronlein- Brysov's scheme. Decompressive and osteoplastic trepanation of the skull. Trepanation of the skull. Anthrotomy (mastoidotomy). Special surgical instruments. Decompression trepanation: indications, technology of the execution, special toolbox. Special surgical instruments.	1. Executing of some stages trepanation of the skull.

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3.	Clinical anatomy of the lateral part of the face. Anesthesia of	Topographical anatomy of lateral region of face. The face department of the head: borders, division by area, blood supply, venous and lymphatic outflow,	1. On one's own preparation of
	the trigeminal nerve	innervation. Facial nerve, its branches. Parotid salivary	regions.
	branches. Operations	gland. The topographical anatomy of parotidea-	2. Incisions at
	for chronic frontitis	chewing area: borders, layers, vessels, nerves. Parotid	phlegmon of
	and sinusitis.	Masseteric Region (Regio Parotidomassetericae)	lateral region of
		Cheek region (Regio Buccales)	face.
		Connections of fat tissue spaces of head. The	3. Executing of
		topographical anatomy of the deep area of the face: fat	
		tissue space, vessels, nerves, venous net and their	fronto- and
		connections with sinuses of the hard brain covering and	maxillary
		veins of the face. Temporal Pterygoid space(Spatium	sinusotomy.
		temporopterygoidea). The maxillary artery. The pterygoid	-
		venous plexus. The mandibular nerve. Pterygopalatine Fossa. Accessory cavities of nose. Fronto- and	
		maxillary sinusotomy. Special surgical instruments.	
4.	Borders, fascias,	Topographical anatomy of triangles, fasciae, fat tissue	1. On one's own
	fatty spaces of the	spaces of the neck. Submandibular (digastric) triangle.	preparation of
	neck, division into	Carotid triangle.	regions.
	triangles.		
	Topographic		
	anatomy of		
	submandibular and		
	carotid triangles of		
~	the neck.		1 17 .1 .1
5.	Clinical anatomy	Topography of base vascular-nerve bundle of the neck.	1. Vagosympathetic novocaine blockade
	of the sternocleidomastoi	Cervical and Brachial Plexus Blocks. Vago-sympathetic novocaine blockade by Vishnevskiy. Incisions at	by Vishnevskiy.
	d area and the	phlegmon of the neck. Topographical anatomy of	2. Executing of
	lateral triangle of	larynx, trachea, pharynx, esophagus. Thyroid gland.	tracheostomy.
	the neck. Vago-	Conicotomy. Tracheostomy. Surgical accesses to	3. On one's own
	sympathetic	esophagus. Resection of thyroid gland by Nikolaev.	executing of typical
	blockade by		operations on neck.
	Vyshnevsky.		
	Surgical		
	interventions on		
	the neck organs.		
6.	Surgical anatomy	The topographical anatomy subclavian region.	1. Preparation
	of the subclavian	Subclavian vein puncture. The mammary glands:	of regions;
	area, breast, chest	structure, topography, blood supply, venous and	2. Subclavian
	wall, pleura and	lymphatic outflow, innervations. The motivation of	vein puncture.
	diaphragm.	dissection by mastitis. Operations on the mastitis's,	3. Operations on
	Puncture of the	nonmalignant tumors and cancer of the breast.	the mastitis's.
	pleural cavity. Primary surgical	The topographical anatomy of the thorax: borders, orientation lines. The thoracic wall: layers, intercostal	4.Pleural puncture;5. Resection of
	treatment of	space. The intercostals space and its contains. The	the rib.
	penetrating chest	cavity of the thorax. Pleural and pericardial cavities,	uiv 110.
	wall injuries.	interpleural areas (triangles). The topographer-	
		anatomical motivation of pleural puncture. The	
		diaphragm: parts, weak places, blood supply, venous	
		and lymphatic outflow, innervations.	
		Pleural puncture. Resection of the rib: indications,	
		contraindications and technique. The preventive	
		surgical processing of penetrating and not penetrating	
1		thoracic wounds complicated with the fractures of the	
		ribs, pneumo- and hemothorax.	

7.	The	Madiastinum, alassifications, divisions, the contents	1 Droporation of
7.	The mediastinum	Mediastinum: classifications, divisions, the contents. Surgical anatomy of the organs of anterior mediastinum:	1. Preparation of anterior
	and its	6 . 6	mediastinum;
		the great vessels, thymus, diaphragmatic nerves.	2. Operations on
	departments.	Trachea. The ascending aorta and aortic arch. The lungs:	-
	Surgical	holotopy, skeletopy, syntopy. The topography of lung's	the lungs and mediastinum.
	anatomy of	roots, lobes, segments; vascularization, venous and	
	the lungs.	lymphatic outflow, innervations.	3. Preparation
	Heart and	Operations on the lungs and mediastinum: the	of posterior
	pericardial	accesses, its topographic anatomy's basing and clinical	mediastinum;
	surgery.	estimation. Pulmonectomy, lobectomy, segmental	4. Puncture of the
		resection.	pericardial cavity.
		The puncture of the pericardial cavity. Operations on	
		the heart and great vessels. The common principles of	
		operations on the congenital and acquired vices of the	
		heart. The mitral comissurotomy. The operative	
		accesses to the heart. The technique of the stitches of	
		the heart wound. The heart-lung-apparatus: the main	
		modules, the principles of work, the functional	
		estimation and demands to it. The aorto-coronal by-	
0		pass.	1.0
8.	Surgical anatomy of	The organs of posterior mediastinum: esophagus,	
	the posterior	descending thoracic aorta, azygos and hemyazygos	
	mediastinum.	veins, ductus thoracicus, vagus and splanchnicus	
	Esophageal surgery.	nerves, sympathetic trunks. Esophagotomy, the	
		resection and plastics of the esophagus. The surgical	
0		treatment of the atresia of the gullet.	1 December of
9.	Surgical anatomy of	Antero-lateral abdominal wall. Orientation lines. The	1. Preparation of
	the anterolateral	division into areas. The projection of organs of	antero-lateral
	abdominal wall.	abdominal cavity; vascularization, innervations, layers,	abdominal
	Surgical treatment	weak places. The topography of umbilical region and	wall regions;
	of umbilical hernias	white line.	2. Performance
	and hernias of the	The operative accesses to the peritoneal cavity's organs:	
	white line of the	the demands, classification, different types of the	3. The surgical
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	abdomen. Surgical		treatment of
	anatomy and	laparostomy. The surgical treatment of the umbilical	treatment of the
	anatomy and surgical treatment of	laparostomy. The surgical treatment of the umbilical hernias and hernias of white line. The features of	treatment of the herniotomy.
	anatomy and	laparostomy. The surgical treatment of the umbilical hernias and hernias of white line. The features of herniotomy in child. The strangulated and sliding	treatment of the herniotomy. 4.The surgical
	anatomy and surgical treatment of	laparostomy. The surgical treatment of the umbilical hernias and hernias of white line. The features of herniotomy in child. The strangulated and sliding hernias.	treatment of the herniotomy. 4.The surgical treatment of
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10.	anatomy and surgical treatment of inguinal hernias. Clinical anatomy and operative surgery of the peritoneum and organs of the upper	laparostomy. The surgical treatment of the umbilical hernias and hernias of white line. The features of herniotomy in child. The strangulated and sliding hernias. The inguinal region, triangle, space. The inguinal canal: walls, contains, rings. The spermatic cord. The abdominal hernias. Classification of hernias. Meaning of congenital, retrograde, sliding and strangulated hernias. The hernias elements. The surgical treatment of the inguinal hernias. The abdominal cavity, the peritoneal cavity. The peritoneum, variants of covering of the organs by the peritoneum. The levels of the abdominal cavity, theirs borders. The hepatic, pregastric and omental bursa, their connections. The ways of enlargement of the pus. The small omentum, its contents. Topography of large omentum. The ligaments, recessuses, channels, sinuses and other derivations of peritoneum. The connections of lower floor of the peritoneal cavity with the upper floor	treatment of the herniotomy. 4. The surgical treatment of the herniotomy. 1. Preparation of peritoneum and its derivations; 2. A finding on the corpse of mesenterial sinus, channels. 3. Preparations of hepatoduodenal ligament.
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10.	anatomy and surgical treatment of inguinal hernias. Clinical anatomy and operative surgery of the peritoneum and organs of the upper	laparostomy. The surgical treatment of the umbilical hernias and hernias of white line. The features of herniotomy in child. The strangulated and sliding hernias. The inguinal region, triangle, space. The inguinal canal: walls, contains, rings. The spermatic cord. The abdominal hernias. Classification of hernias. Meaning of congenital, retrograde, sliding and strangulated hernias. The hernias elements. The surgical treatment of the inguinal hernias. The abdominal cavity, the peritoneal cavity. The peritoneum, variants of covering of the organs by the peritoneum. The levels of the abdominal cavity, theirs borders. The hepatic, pregastric and omental bursa, their connections. The ways of enlargement of the pus. The small omentum, its contents. Topography of large omentum. The ligaments, recessuses, channels, sinuses and other derivations of peritoneum. The connections of lower floor of the peritoneal cavity with the upper floor	treatment of the herniotomy. 4. The surgical treatment of the herniotomy. 1. Preparation of peritoneum and its derivations; 2. A finding on the corpse of mesenterial sinus, channels. 3. Preparations of hepatoduodenal ligament.

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		blood supply, innervations, lymphatic outflow. The	5. Performance on
		topographic anatomy of the gall bladder and the bile	the corps of the
		ducts.	cholecistostomy,
		The temporary and definitive hemostatic methods of	cholecistectomy, the
		liver bleedings. The stitches of Kuznetzov-Pensky. The	splenectomy.
		splenectomy. The common principles of performance of	
		the operations on the pancreas. The operations on the	
		gall bladder and the bile ducts: the cholecystectomy, the	
		cholecystostomy, the external and internal drainage of	
		the common bile duct (the choledochostomy).	
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11	. Clinical anatomy and	The topographic anatomy of small intestine. Differential	1. Performance of the
	-	signs between ileum and ieiunum Structure holotony	

1	1. Chinical anatomy and	The topographic anatomy of small intestine. Differential	
	operative surgery of	signs between ileum and jejunum. Structure, holotopy,	
	the stomach and	skeletopy, syntopy, blood supply, innervations,	and the different kinds
	lower abdominal	lymphatic outflow. Blood supply, innervations of great	of the entero-entero
	organs.	intestine, lymphatic outflow.	anastomy (end-to-end,
		The intestinal stitches: the demands to them, the	end-to-side, side-to-
		classification and the operative technique. The different	side);
		types of intestinal anastomosis. The palliative and	2. Performance of the
		radical operations on the small intestine.	colotomy, cecotomy.
		The topographic anatomy of great intestine. Structure,	3. Performance of
		holotopy, skeletopy, syntopy, blood supply,	gastrostomy;
		innervations, lymphatic outflow. The top. anatomy of	4.Performance of the
		ileocecal angle, appendix, great intestine. Differential	
		signs between small and great intestine. Variability of	stomach;
		ileocecal angle and appendix. Blood supply,	5.Performance on the
		innervations of great intestine, lymphatic outflow.	corps of the
		Operations on the great intestine. The appendectomy:	gastroenteroanasto
		the kinds, the technique of performing. The palliative	my.
		and radical operations on the great intestine: the	
		colotomy, the colostomy (the ceco-, transverse- and	
		sigmostomy). The operation of performing the	
		preternatural anus (uni- or bi-shaft one).	
		The topographic anatomy of stomach and duodenum:	
		holotopy, skeletopy, syntopy, ligaments, blood supply,	
		innervations, lymphatic outflow.	
		The palliative and radical operations on the stomach: the	
		gastrotomy and the gastrostomy. The resection of the	
		stomach: the classification and the technique of	
		performing. The organietentive operations on the	
		stomach (the vagotomy: the truncular, the selective and	
		the proximal selective ones). The drainage and	
		reconstructive operations on the stomach.	

12.	Clinical anatomy	Lumbar area: borders, layers, weak places, blood	1. Preparation of
	of the lumbar	supply, innervations, week places. Fascia and fat layers	*
	region, spine,	of the retroperitoneal space. Vertebral column, its	
	spinal cord and	flexures, ligaments. Contents of the vertebral channel:	
	retroperitoneal	spinal cord, its envelopes, intermeningeal spaces.	1 1
	space. Operations	Epidural venous plexuses. The paranephral Novocain	
	on the spine,	blockade after A.V.Vishnevsky. Topographo-anatomic	
	kidneys and	substantiation of the paranephral novocain blockade.	the kidneys;
	ureters.	Lumbar puncture. An anatomic substantiation of	4. Performance of the
	urctors.	engineering of epidural and subdural anesthesia. The	
		operations on the vertebral column: the opening of the	5. Preparation of pelvic
		vertebral canal (laminectomy). Topography of kidneys,	vessels and nerves;
		ureters, suprarenal gland, abdominal aorta, vena cava	
		inferior, nervous plexuses. Structure, holotopy,	dissections by
		skeletopy, syntopy, blood supply, innervations of	5
		kidneys, suprarenal gland and ureters, lymphatic	paraprocitis.
		outflow. Capsules of kidney, fixating apparatus.	
		Branches of abdominal aorta, tributaries of vena cava	
		inferior. Lumbar plexus. The operative accesses to the	
		kidneys and ureters. The resection of the kidney, the	
		nephrectomy. The common principles of the plastics	
		operations on the ureters. The stitches of the ureter.	
		operations on the dreters. The stitches of the dreter.	
13.	Clinical anatomy and	Pelvis: orientates, borders. Bone basis of pelvis,	1 Preparation of
	•	ligaments, parietal and visceral muscles, fascias. Fat	1
	the pelvis.	layers (spaces) and their communication with other	
	1	areas. Division of pelvis into floors. A course of	
		peritoneum in man's and female pelvis. Internal iliac	tube
		artery, its branches, venous and nervous plexuses,	
		lymphatic outflow. Diaphragm of pelvis: urogenital and	
		anal. Topography of man's and female perineum. Blood	
		supply, innervations. The Alcock channel. Ischiorectal	
		fossa. The topographic anatomy of scrotum and testicles.	
		The drainage of the pelvic fat spaces after the McWorter	
		and after P.A.Kupriyanov. The blockade of the pelvic nerves after Shkolnikov-Selivanov. The common	
		principles of operations on phimosis, paraphimosis,	
		cryptorchidism. The Vinkelmann's operation on	
		hydrocele. Topography of urinary bladder, urethers.	
		Topography of prostate, vesica seminalis and spermatic	
		duct. Uterus (metra), uteral tube, ovaries, ligaments,	
		vessels and nerves. Rectum: parts, covering by	
		peritoneum, sphincters, blood supply, innervation,	
		venous and lymphatic outflows. The operative accesses	
		to the pelvic organs. The puncture, opening and drainage	
		of urinarybladder (sectio alta). The operations on extra-	
		uterine (or abdominal) pregnancy. The puncture of the	
		Douglas's depression (excavatio rectouterina). The	
		Douglas's depression (excavatio rectouterina). The operation of removing of the prostate (adenomectomy or	
		Douglas's depression (excavatio rectouterina). The	

14.	Clinical anatomy and	The topographical anatomy of gluteus area: borders,	1. Preparation of
14.	operative surgery of	layers, vessels, nerves. Injury to superior gluteal nerve.	gluteus area vessels
	the gluteal region, hip	The superior and inferior gluteal veins and arteries. The	and nerves.
	joint and thigh.	topographical anatomy of the back area of thigh:	2. The puncture of hip
	Joint and tingh.		
		anatomy of hip joint: construction, the form, volume of	
		hip joint. The puncture of hip joint. The indications,	4. Preparation of
		technology of the execution. The accesses to Sciatic	
		Nerve.	thigh.
		The topographical anatomy of lower limb: division on	
		area, the sources of blood supply and innervation.	-
		Venous and lymphatic outflow. The topographical	0
		anatomy of the front area of thigh: borders, layers,	
		vessels, nerves. The borders, bottom and vascular bunch	
		of the hip triangle. Muscular and vessel lacunas, their	
		walls and contents. The topographical anatomy of the	
		hip channel: walls, holes, the contents. The bringing channel: walls, holes, the contents. The determination of	
		the hernia. The elements of the hernia. The classification	
		of the hernias. Herniotomy by Bassini. The advantages	
		and defects. The technology of the execution. The	
		operations at groin hernia. The technology of the	
		execution (by Bassini, Rudzhi- Parlavechcho).	
15.	Clinical anatomy and	The topographical anatomy of the front area of the knee:	1. Preparation of
101	operative surgery of	borders, layers. The topographical anatomy of the knee	1
	the knee, knee joint,	joint: construction, the form, volume of the motion,	1 1
	lower leg,	ligaments. The topographical anatomy of the back area	
	retromalleolar medial	of the knee: borders, layers. The topographical anatomy	
	region and foot.	of popliteal fosse, her contents. The arterial network of	
	-	the knee joint. Cruro-popliteal channel: walls, holes and	
		contents. Arthrotomy of the knee joint. The indications,	by Kornev.
		accesses, technology of the execution. The resection of	Accesses to
		the knee joint by Tekstor. The indications, technology of	
		the execution. The resection of the knee joint by Kornev.	
		The indications, technology of the execution. Superior	
		and inferior muscular-peroneal canals. Topographical	
		anatomy of ankle joint Topography of foot. Incisions at	
		phlegmon of leg and foot. Projection of vessels and	
		nerves, accesses to them.	
16	Clinical anotomy and	Topographical anotomy of scapular avillary's deltaid	1. On one's own
16.	Clinical anatomy and	Topographical anatomy of scapular, axillary's, deltoid, subclavian, arm regions. Trilateral and quadrilateral	
	operative surgery of		preparation of
	the scapular region,	foramens. Canal of radial nerve. Scapular arterial	regions.
	axillary region,	network. Ways spreading of phlegmon. Incisions at	
	deltoid region, arm	phlegmon of region above upper arm and shoulder	vessels and nerves
	region and shoulder	region. Projection lines of vessels and nerves, accesses	of region above
	joint.	to them. Resection of shoulder joint after Langenbeck	upper arm and
		and Chaclin.	shoulder region.

	Clinical anatomy and operative surgery of the regions of elbow, forearm, wrist and hand. Vessels operations. Amputations and disarticulations.	Topographical anatomy of elbow region, regions of 1. On one's own forearm, hand and fingers. Grooves, canals and fat tissue preparation of regions. layers of this regions. Arterial network of elbow joint. Incisions at phlegmon Ways spreading of purulent processes. Relationships of elements of neurovascular bundles. Projection of vessels and nerves, accesses to them. Operations at phlegmon of hand and fingers. Puncture and arthrotomy of elbow joint. Puncture of wrist joint. Suture of vessels, nerves, tendons. Ligation arteries «on length». Conception of collateral and reduced blood supply. Operative treatment of varicose veins of lower extremities. Common principles, stages of amputations and disarticulations. Estimation length of skin flaps at amputation. Amputation of arm. Amputation of forearm. Technique of disarticulation of phalanx and fingers. Threemoment amputation by Pirogov. Bone- plastic amputation of thigh by Gritti-Shimanovsky. Bone-plastic amputation of leg by Pirogov. Amputation of leg on length. Amputation of foot by Sharp. Disarticulation of fingers of foot by Garanzho. Puncture and arthrotomy of hip joint. Puncture, arthrotomy, resection of knee joint. Puncture, arthrotomy, resection of knee joint. Puncture, arthrotomy, resection of the ankle joint.
18.	Differentiated test in the discipline "Clinical Anatomy and Operative Surgery"	Answering the questions, students on the physical body demonstrate applied aspects of clinical anatomy, techniques of surgical interventions, knowledge of surgical instruments and the ability to use them.