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ADDITIONS AND CHANGES TO THE CURRICULUM FOR THE ACADEMIC DISCIPLINE «Topographic anatomy and operative surgery»

For the specialty 1-79 01 01 «General Medicine»

на 2024/2025 учебный год

Additions and changes		Basis
1. Changes have been made to the explanatory note according to appendix № 1	Curriculum of the educational institution for the 2024-2025 academic year	
2. Changes have been made to the thematic plan according to appendix № 2	Curriculum of the educational institution for the 2024-2025 academic year	
3. Changes have been made to the education and methodological map according to appendix № 3	Curriculum of the educational institution for the 2024-2025 academic year	

Revision and approval of the curriculum was done at a departmental meeting of the Department of Operative Surgery and Topographic Anatomy (protocol № 18 of 17.06. 2024)

Head of the Department of Operative Surgery and topographic anatomy


N.Y. Bovtyuk

APPROVED by.
Dean of the Faculty of General Medicine


O.S. Ishutin

In total, 196 academic hours are allocated for the study of the academic discipline, of which 101 hours are for classroom sessions, and 95 hours for students independent work. Distribution of classroom hours by type of lesson: 18 hours for lectures (including 3 hours of tutored independent work. 80 hours for laboratory classes.

Changes in the explanatory note

DISTRIBUTION OF STUDY TIME BUDGETTED BY SEMESTER

Code, name specialties	semester	Total	classrooms	lectures	students independent work	laboratory classes (practical classes or seminars)	among them	Number of training hours	Intermediate form certification	credit	exams
1-79 01 01 «General Medicine»	6	98	52	9	3	40		46			
	7	98	49	9	-	40		49			

APPENDIX № 2

THEMATIC PLAN

Section (topic) name		Number of class hours	
lectures (including students independently work)	practical		
1. Introduction to the discipline «Topographic Anatomy and Operative Surgery»		3,0	5
1.1. Aims and objectives of topographic anatomy and operative surgery. Surgical instruments	1.5	2,5	
1.2. Dissecting/dividing(cutting) and apposing (connecting/joining) tissues. Suture material. Surgical sutures and knots.	1.5	2,5	
2. Topographic anatomy and operative surgery of the head	1,5	5	
2.1.Topographic anatomy of the cranial(cerebral) region of the head		2,5	
2.2.Topographic anatomy of the facial region of the head		2,5	
3. Topographic anatomy and operative surgery of the neck	1,5	10	
3.1. Topographic anatomy of the neck	1,5	5	
3.2. Surgery of the neck		5	
4. Topographic anatomy and operative surgery of the thorax and mediastinum	3	10	
4.1.Topographic anatomy and operative surgery of the thorax	1,5	5	
4.2.Topographic anatomy and operative surgery of the mediastinal organs	1,5	5	
5. Topographic anatomy and operative surgery of the abdomen	6	17,5	
5.1.Topographic anatomy of the anterolateral abdominal wall	1,5	2,5	
5.2. Surgery of the anterior abdominal wall. Surgical anatomy of the hernias		2,5	
5.3. Topographic anatomy of the peritoneum and the abdominal cavity. Topographic anatomy and operative surgery of the small intestine	1,5	2.5	

Number of class hours		lectures (including students independently work)	practical	Section (topic) name
				5.4. Topographic anatomy and operative surgery of the stomach
				5.5. Topographic anatomy and operative surgery of the large intestine
				5.6. Topographic anatomy and operative surgery of the liver, gallbladder, biliary tree, pancreas and spleen
				6. Tutor-led application of practical skills in surgical departments of healthcare institutions
				7. Practicing and applying practical skills in the operating room
				8. Topographic anatomy and operative surgery of the lumbar region and retroperitoneal space
				9. Topographic anatomy and operative surgery of the pelvis and perineum
				10. Topographic anatomy and operative surgery of the extremities
				10.1. Topographic anatomy and operative surgery of the upper extremity.
				10.2. Topographic anatomy and operative surgery the lower extremity
				11. Tutor-led application of practical skills in surgical departments of healthcare institutions
				12. Practicing and applying practical skills in the operating room
				Total hours

THEMATIC PLAN

Number of classroom hours		Name of Section (topic)	
Lectures (including students independent work)	practical		
6th semester			
3,0		1. 1. Introduction to the discipline «Topographic Anatomy and Operative Surgery»	
		1.1.Aims and objectives of topographic anatomy and operative surgery. Surgical instruments	
		1.2.Dissecting/dividing(cutting) and apposing (connecting/joining) tissues. Suture material. Surgical sutures and knots	
		10. Topographic anatomy and operative surgery of the Limbs(extremities)	
5	10	1,5	10.1. Topographic anatomy and operative surgery of the upper limb(extremities).
5		1,5	10.2. Topographic anatomy and operative surgery of the lower limb(extremities)
2,5		-	11.6. Supervised application of practical skills in surgical departments of healthcare institutions
2,5		-	12.7. Practicing and applying practical skills in training(simulating operating room
7,5		3,0	4. Topographic anatomy and operative surgery of the chest(thorax) and organs of the mediastinum
2,5		1,5	4.1. Topographic anatomy and operative surgery of the chest(thorax)
5,0		1,5	4.2. Topographic anatomy and operative surgery of organs of the mediastinum
1,5		2. Topographic anatomy and operative surgery of the head	
		2.1. Topographic anatomy of the cranial(cerebral) region of the head	
		2.2. Topographic anatomy of the facial region of the head	
		2.3. Surgical procedures on the head	
		3. Topographic anatomy and operative surgery of the neck	
5		1,5	3.1. Topographic anatomy of the neck
2,5			3.2. Surgical procedures on the neck
5,0			
40		12	

EDUCATIONAL AND METHODOLOGICAL MAP OF THE ACADEMIC DISCIPLINE «TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY», «SURGICAL MODULE 1»

№ mm	Title of section, topic	Number of classroom hours		tutored independent work	Practical skill	form of assesment	
		lectures	practical			Practical skills	current/ intermediate certification
7th semester.							
	lecture						
1.	Topographic anatomy and operative surgery of the neck.	1,5					
2.	Topographic anatomy and operative surgery of the chest(thorax).	1,5					
3.	Topographic anatomy and operative surgery of the mediastinal organs.	1,5					
4.	Topographic anatomy and operative surgery of the upper limb.	1,5					
5.	Topographic anatomy and operative surgery of the lower limb.	1,5					
6.	Operative surgery of blood vessels	1,5					
	Practical lessons						

			1. Identify parts and areas of the human body and show their boundaries. 2. Graphic representation on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels.	1. Assessment practical skill on a student volunteer. * 2. Oral tests 3. Computer based/multichoice questions 4. Assessment using simulators, wet mounts, museum mounts. 5. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	
1.	10.1. Topographic anatomy and operative surgery of the upper limb.	5	1. Find points on the human body to determine the pulse in the arteries and press them with fingers to temporarily stop bleeding: - radial artery; 3. Carry out surgical procedures: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, extensively, using sutures, using Deschamps' and Cooper's ligature needles); - venipuncture; - dissection of tissue with a scalpel; - removal of skin sutures;	1. Identify parts and areas of the human body and show their boundaries. 2. Graphic representation on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 3. Perform surgical operations and manipulations: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, extensively, using sutures, using Deschamps and Cooper ligature needles); - venipuncture; - dissection of tissue with a scalpel; - removal of skin sutures;	
2.	10.2. Topographic anatomy and operative surgery of the lower limb	5	1. Locate points on the human body to determine the pulse in the arteries and press them with fingers to temporarily stop bleeding: - femoral artery; - dorsal artery of the foot; - posterior tibial arter. 2. Locate points on the human body to perform catheterization of the femoral artery. 3. Gather a set of general surgical and special instruments for performing hip amputation surgery 4. Carry out surgical procedures: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; - removal of skin sutures; - vascular suture: circular-knot, "parachute", continuous; side; - nerve suture (epineural); - tendon suture (Bunel-Kunco, Kessler-Tajima).	1. Assessment practical skill on a student volunteer. * 2. Oral tests 3. Computer based/multichoice questions 4. Assessment using simulators *, wet mounts, museum mounts. 5. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	

			1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify within the regions and demonstrate secondary (smaller in size than the region or part of the body itself) topographic territories - triangles, grooves, fossa. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels.	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	
3.	4.1. Topographic anatomy and operative surgery of the chest	5	1. Carry out surgical procedures: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; - removal of skin sutures; 2. Assemble a set of general surgical and special instruments to perform the operation of puncture of the pleural cavity	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 5. Interpretation of X-ray results for traumatic injuries of bones and joints. 6. Instrument selection assessment*	
4.	11. Tutor-led application of practical skills in surgical departments of healthcare institutions	5	1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Find points on the human body to determine the pulse in the arteries and press them with your fingers to temporarily stop bleeding: - radial artery; - femoral artery; - dorsal artery of the foot; - posterior tibial artery. 7. Find points on the human body to perform catheterization of the subclavian vein and femoral artery. 8. Find points on the human body to perform a puncture of the pleural cavity.	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints. 7. Computer-based tests	

5.	4.2. 4. Topographic anatomy and operative surgery of organs of the mediastinum				1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Find points on the human body to perform a puncture of the pericardial cavity. 7. Compose a set of general surgical and special instruments to perform puncture of the pericardial cavity.	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 5. Interpretation of X-ray results for traumatic injuries of bones and joints. 6. Computer- based tests	Тестирование Опрос Ситуационные задачи
	<i>Final lesson on the topic: "Topographic anatomy and operative surgery the, chest/thorax and mediastinal organs"</i>		5				
6.	3.1. Topographic anatomy of the neck		5		1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Find points on the human body to determine the pulse in the arteries and press them with your fingers to temporarily stop bleeding: -common carotid artery; -subclavian artery; 7. Find points on the human body to perform catheterization of the subclavian vein.	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography.. 5. Interpretation of X-ray results for traumatic injuries of bones and joints. 6. Computer- based tests 7. Instrument selection assessment. *	
7.	3.2. Operative surgery of the neck		5		1. Compile a set of general surgical and special instruments for performing operations: - tracheostomy; - catheterization of arteries and veins;		

	12. Practicing and applying practical skills in the simulating operating room.			- Determine the ability to correctly use (correctly hold and perform actions) surgical instruments - Compile a set of general surgical and special instruments for performing tracheostomy operations; - Carry out surgical procedures: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; - removal of skin sutures; - tracheostomy; - conicotomy;	- Oral tests - Computer based/multichoice questions - Assessment using simulators *, wet mounts, museum mounts, student volunteers. - Interpretation of radiographs of organ topography. - Interpretation of X-ray results for traumatic injuries of bones and joints. - Computer- based tests	
8.		5				
	<i>Final on mastering practical skills</i>					Оррос
	Total hours:	9	40			ЗКЗ2МЕН
6th semester						
	Lectures					
1.	1. Introduction to the discipline «Topographic Anatomy and Operative Surgery»	1,5				
2.	Aims and objectives of topographic anatomy and operative surgery. Surgical procedures		1,5			
3.	Topographic anatomy and operative surgery of the limbs	1,5				
5.	Topographic anatomy and operative surgery of the chest/thorax	1,5				
6.	Topographic anatomy and operative surgery of organs of the		1,5			

	mediastinum					
7.	2. Topographic anatomy and operative surgery of the head	1,5				
8.	Topographic anatomy and operative surgery of the neck	1,5				
	Practical lessons					
1.	1.1. Aims and objectives of topographic anatomy and operative surgery. Surgical instruments	2,5		1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, pits. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area.	1. Instruments demonstration/* 2. Oral tests 3. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers.	
2.	1.2. Dissecting/dividing(cutting) and apposing (connecting/joining) tissues. Suture material. Surgical sutures and knots	2,5		1. Determine the type, name, purpose and other characteristics of the suture material from the notes on the packaging. 2. Form knots (simple, marine, surgical). 3. Determine the type of surgical instrument and its purpose. 4. Determine the ability to correctly use (hold and perform actions correctly) surgical instruments (a list of instruments is attached). 5. Carry out surgical procedures: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; - sutures (simple interrupted, Donati suture, interrupted U-shaped continuous sutures: simple (wound), Multanovsky, Schmidt U-shaped (mattress), Halstead cosmetic suture; -removal of skin sutures;	1. Oral tests 2. Evaluation of the choice of instruments, suture material and their correct application using simulators. *	
3.	10.1. Topographic anatomy of the upper limb.	2,5		1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area.	1. Assessment practical skill on a student volunteer. * 2. Oral tests 3. Computer based/multichoice questions 4. Assessment using simulators, wet mounts, museum mounts.	
4.	10.2. Operative surgery of the upper limb.	2,5		1. Find points on the human body to determine the pulse in the arteries and press them with fingers to temporarily stop bleeding: - radial artery; 3. Perform surgical operations and manipulations: - application of a hemostatic clamp;	1. Oral tests 2. Computer based/multichoice questions 3. Evaluation of the choice of instruments, suture material and	

					-application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); -venipuncture; - dissection of tissue with a scalpel; -removal of skin sutures;	their correct application using simulators. * 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	
5.	10.3. Topographic anatomy of the lower limb	2,5			1. Identify parts and areas of the human body and show their boundaries. 2. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels.	1. Assessment practical skill on a student volunteer. * 2. Oral tests 3. Computer based/multichoice questions 4. Assessment using simulators, wet mounts, museum mounts.	
6	10.4. Operative surgery of the lower limb.	2,5			1.Gather a set of general surgical and special instruments to perform hip amputation surgery 2. Perform surgical operations and manipulations: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); -ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; -removal of skin sutures; -vascular suture: circular-knot, "parachute", continuous; side; - nerve suture (epineural); - tendon suture (Bunuel-Kuneco, Kessler-Tajima).	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators *, wet mounts, museum mounts, student volunteers * 4. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	
7.	4.1. Topographic anatomy and operative surgery of the chest/thorax	2,5			1. Identify parts and areas of the human body and show their boundaries. 2.Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 1.Interview 2. Quiz 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	1. Oral tests 2. Computer based/multichoice questions 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4 Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results for traumatic injuries of bones and joints.	
8.	11. Tutor-led application of practical skills in surgical departments of healthcare institutions	2,5			1. Identify parts and areas of the human body and show their boundaries. 2.Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae.. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Locate points on the human body to determine the pulse in the arteries and press them with fingers to temporarily stop bleeding: - radial artery;	1. Oral tests 2. Computer based/multichoice questions. 3. Assessment using simulators, wet mounts, museum mounts, student volunteers . 4. Performing a practical skill at a clinical site at the patient's bedside. * 5. Interpretation of radiographs of organ topography.	

				-femoral artery; -dorsal artery of the foot; -posterior tibial artery; 7. Find points on the human body to perform catheterization of the subclavian vein and femoral artery; 8. Find points on the human body to perform a puncture of the pleural cavity.	6. Interpretation of X-ray results when due to traumatic injuries of bones and joints.. 7. Computer- based tests	
9.	4.2. 4. Topographic anatomy and operative surgery of organs of the mediastinum	2,5		1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels.	1. Oral tests 2. Computer- based/multichoice questions. 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Performing a practical skill at a clinical site at the patient's bedside. 5. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results when due to traumatic injuries of bones and joints.. 7. Computer- based tests	
10.	4.3. Operative surgery of organs of the mediastinum			1. Find points on the human body to perform a puncture of the pericardial cavity. 2. Compose a set of general surgical and special instruments to perform puncture of the pericardial cavity		
	Final lesson and assessment on the topic: «Topographic anatomy and operative surgery of organs of the thorax and mediastinum»	2,5				Опрос Тестирование Ситуационные задачи
11.	12. Practicing practical skills in a simulating/training operating room.	2,5		1. Determine the ability to correctly use (correctly hold and perform actions) surgical instruments 2. Compile a set of general surgical and special instruments for performing tracheostomy operations; 3. Perform surgical operations and manipulations: - application of a hemostatic clamp; - application of a vascular clamp (Gepfner vascular clamp); - ligation of blood vessels (in the wound, throughout, with suturing, using Deschamps and Cooper ligature needles); - dissection of tissue with a scalpel; - removal of skin sutures; - tracheostomy; - conicotomy;	1. Oral tests 2. Computer based/multichoice questions. 3. Assessment using simulators, wet mounts, museum mounts, student volunteers. 4. Performing a practical skill at a clinical site at the patient's bedside. 5. Interpretation of radiographs of organ topography. 6. Interpretation of X-ray results when due to traumatic injuries of bones and joints.. 7. Computer- based tests	
	1.1. Topographic anatomy of the cranial(cerebral) region of the head			1. Identify parts and areas of the human body and show their boundaries. 2. Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Find points on the human body to determine the pulse in the arteries and press them with	1. Oral tests 2. Computer based/multichoice questions. 3. Assessment using simulators, wet mounts, museum mounts. 4. Assessment practical skill on a student volunteer. *	
12.	1.2. Topographic anatomy of the facial	2,5				
13.						

	region of the head				your fingers to temporarily stop bleeding: -superficial temporal artery; -facial artery		
14	1.3. Operative surgery of the head	2,5			1. Gather a set of general surgical and special instruments for performing craniotomy surgery;	1. Oral tests 2. Computer based/multichoice questions. 3. Assessment using simulators *, wet mounts, museum mounts, student volunteers .	
15.	3.1. Topographic anatomy of the neck	2,5			1. Identify parts and areas of the human body and show their boundaries. 2.Name and show the planes and lines used in topographic anatomy. 3. Identify and demonstrate secondary (smaller in size than the region or part of the body) topographic territories within the regions - triangles, grooves, fossae. 4. Identify by inspection, palpation and name the structures that form the relief of the human body within each area. 5. Graphic image on the surface of the body, on the skeleton of the topographic contours of organs, projections of large nerves and blood vessels. 6. Find points on the human body to determine the pulse in the arteries and press them with your fingers to temporarily stop bleeding: -common carotid artery; -subclavian artery; 7. Find points on the human body to perform catheterization of the subclavian vein.	1. Assessment practical skill on a student volunteer: * 2. Oral tests 3. Computer based/multichoice questions. 4. Assessment using simulators, wet mounts, museum mounts.	
16.	3.2. Surgery of the neck	2,5			1. Gather a set of general surgical and special instruments for performing operations: - tracheostomy; - catheterization of arteries and veins;	1. Evaluation of the choice of instruments *. 2. Oral tests 3. Computer based/multichoice questions. 4. Assessment using simulators *, wet mounts, museum mounts, student volunteer. 5. Performing a practical skill at a clinical site at the patient's bedside. 6. Interpretation of radiographs of organ topography. 7. Interpretation of X-ray results when due to traumatic injuries of bones and joints. 8. Computer- based tests	349ET
	<i>Final on mastering practical skills</i>						
	Total hours:	12	40				