

**FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION OF
HIGHER EDUCATION
"NORTH OSSETIAN STATE MEDICAL ACADEMY"
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

**DEPARTMENT OF HUMAN ANATOMY WITH TOPOGRAPHIC ANATOMY AND
OPERATIVE SURGERY**

MODULAR QUESTIONS

BY DISCIPLINE

«TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY»

**the main professional educational program of higher education – the specialty program in the
specialty 31.05.01 «General Medicine»**

MODULAR QUESTIONS FOR THE FINAL LESSON
THEME «SUBJECT AND TASKS OF TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY.
TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY OF THE UPPER AND LOWER LIMB»
FOR STUDENTS III COURSE BY SPECIALTY
31.05.01 «General Medicine» (specialty)

1. Subject and tasks of topographic anatomy
2. Layered topography of the axillary region. Pathways of purulent processes from the armpit
3. Layered topography of the anterior thigh. The boundaries of the Scarpov triangle. The interposition of femoral vessels at different levels of the Scarpov triangle.
4. Indications for the imposition of a vascular suture. Requirement for vascular suture.
5. Methods for the study of topographic anatomy
6. Layered topography of the axillary region. Brachial plexus: bundles and branches of the brachial plexus. Lymph nodes of the axillary fossa
7. Topography of the femoral artery and its branches. Adduct canal. Femoral artery projection line.
8. Indications for the implementation of the primary suture of the nerve.
9. General provisions of operative surgery
10. Layered topography of the subdeltoid area. Ways to the spread purulent processes from the subdeltoid area.
11. Topography of the obturator canal. The neurovascular bundle of the obturator canal. The clinical significance of the obturator canal. The projection of its outer hole on the skin of the thigh.
12. Guillotine amputation of the limb. Processing of vessels and nerves.
13. Classification of surgical instruments: General surgical, special.
14. Elbow joint. Weak areas of the capsule of the elbow joint. Nerves adjacent to the joint capsule.
15. Topography of the popliteal fossa. The neurovascular bundle of the popliteal fossa.
16. Puncture of the hip joint. Indications and technique
17. Suture Material: requirements for suture material. Main parameters
18. Topographic anatomy of the anterior forearm region. Neurovascular bundle of the anterior forearm region.
19. Topography of the popliteal fossa. Ways of distribution of purulent processes from the popliteal fossa
20. Puncture of the knee joint. Indications and technique
21. Suture material: classification
22. | Topographic anatomy of the posterior region of the forearm. Neurovascular bundle of the posterior region of the forearm
23. Layer-by-layer topography of the posterior shin region. Canalis cruropopliteus: walls and channels content.
24. Classification of the tendon suture by time of application and technique of application
25. Disconnection and connection of tissues
26. Pirogov-Paron Space. Ways of distribution of purulent processes in Pirogov-Paron space.
27. Layer-by-layer topography of the anterior shin region: anterior and lateral fascial bed of the shin . Neurovascular bundles of the anterior tibia
28. Seam, Cuneo. Technique of execution
29. The subject and tasks of topographical anatomy
30. Layer-by-layer topography of the axillary region. The boundaries of the axillary region. The walls of the axillary fossa. The main neurovascular bundle. Projection line of the axillary artery
31. Layer-by-layer topography of the anterior region of the thigh. Muscular and vascular lacunae: the boundaries and formations passing through them. Femoral hernias
32. Indications for the vessel seam. Requirements for vascular suture
33. Principles of operative surgery
34. Shoulder joint Weak areas of the shoulder joint capsule. Nerves adjacent to the joint capsule.
35. Indirect hip arterial circle. Vessels participate in its formation. The clinical significance of the arterial circle
36. Indications for performing neurolysis
37. Stages of surgical intervention
38. Topography of deep vessels and nerves of the shoulder
39. Layered topography of the back of the thigh. Projection line of the sciatic nerve
40. Puncture of the elbow joint. Indications and execution technique.
41. Types of surgeries
42. Layered topography of the scapular region. Scapular arterial arch: vessels involved in the formation of the arc. The clinical significance of the scapular arterial arch.
43. Kinks of the knee-joint their clinical significance

44. Puncture of the wrist joint. Indications and technique.
45. Surgical wound debridement: primary - types, secondary: complete, incomplete.
46. Layered topography of the elbow area. Superficial vessels of the elbow area. Arterial network of the elbow joint.
47. Collateral blood circulation in the knee joint
48. Neurolysis. Indications and technique
49. Skin incision. Technique. Regulation.
50. Layer-by-layer topography of palm. Cellular space of the palm. Innervation of the fingers
51. Medial ankle canal: walls and contents of the channel. Ways of distribution of purulent processes of the medial ankle channel
52. Primary suture nerve. Indications and technique
53. Basic principles of wound closure
54. The median cellular space of the palm. Formation and localization of arterial arcs of the palm
55. Layer-by-layer topography of the sole of the foot. Cellular spaces of the foot. Ways of distribution of purulent processes from the middle cellular space of the foot
56. Guillotine amputation of the limb. Treatment of blood vessels and nerves
57. Seams. Knots. Pieces. Classification
58. Synovial sheaths of the tendons of the flexors of the fingers. Features of the synovial sheaths flexor tendons for different fingers
59. Medial ankle canal: walls and contents of the channel. Ways of distribution of purulent processes of the medial ankle channel
60. Types of anesthesia in surgery: local-infiltration, conduction, case anesthesia; General (anesthesia) - intravenous, mask, combined
61. The technique of seam, Cuneo
62. Topography of deep vessels and nerves of the shoulder
63. Topography of deep vessels and nerves of the shoulder. Layer-by-layer topography of the gluteal region. Ways of distribution of purulent processes from the deep tissue of the gluteal region
64. Puncture of the elbow joint. Indications and technique.

IV COURSE MEDICAL FACULTY
MODULAR QUESTIONS FOR THE FINAL LESSON
TOPIC " TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY OF THE CHEST, ABDOMEN,
AND SPINAL CORD»

1. Diaphragm, blood supply, and innervation.
2. Blood supply and innervation of the chest walls. Topographic anatomy of the intercostal space, features of blood supply.
3. Intercostal nerve block. Puncture of the pleural cavity.
4. Breast. Blood supply and innervation. Lymph flow from the breast.
5. Mastitis, species. Surgical treatment.
6. Sectoral resection of the breast, indications, technique.
7. Radical mastectomy by Halsted-Meyer. Stage of operation.
8. Topography of the pleura and pleural cavity.
9. Topographic anatomy of the lungs. Root of the lung. Blood supply to the lungs. Innervation.
10. Pneumothorax, types, treatment.
11. Surgical treatment of lung abscess. Types, techniques.
12. Surgical treatment of pleural empyema. Thoracoplasty, types, indications. Thoracoplasty in the Shed, indications, technique.
13. Vagus nerves. Thoracic aorta. The cardinal of Vienna.
14. Topography of the heart. Perfusion. Venous outflow. Innervation.
15. Thoracic part of the esophagus. Sympathetic trunk.
16. Cellular spaces of the mediastinum. Mediastinitises.
17. Topography of the pericardium. Blood supply, innervation, lymph flow.
18. Pericardial puncture, indications, types, technique. Suturing wounds of the heart, technology.
19. Operations for purulent mediastinitis. Types of surgical accesses, indications, techniques.
20. Anterior abdominal wall boundaries of the division in the region. Layer-by-layer topography, blood supply and innervation.
21. Folds and pits of the posterior surface of the anterior abdominal wall. Their anatomical and practical significance.
22. Laparotomy. The requirements for laparotomy. Kinds. Indications, advantages and disadvantages.
23. Topographic anatomy of the weak points of the anterior abdominal wall: the white line, the navel, and the inguinal canal.
24. Topographic anatomy of the femoral ring and femoral canal.
25. Hernia treatment for pinched and sliding hernias. Features. Stages. Possible complication.
26. Plastic hernial orifice in direct inguinal hernias. Types, differences between them, their advantages and disadvantages.
27. Hernia repair with femoral hernias. Kinds. Difference between them. Possible complication.
28. Herniotomy. Basic principles of hernia treatment.
29. Hernias of the anterior abdominal wall. Components of hernias. Classification of hernias.
30. Strangulated and sliding hernias. The types of strangulated and sliding hernias.
31. Surgical anatomy of inguinal hernias. Their types and differences between them.
32. Hernia treatment for congenital inguinal hernia. Features. Technic.
33. Hernia treatment for umbilical hernias. Kinds. Technic. Their comparative topographical and anatomical assessment.
34. Plastic hernia gate for oblique inguinal hernias. Types, differences between them, their advantages and disadvantages.
35. The principles of revision of the abdominal cavity.
36. Bags of the upper floor of the abdominal cavity. Channels, sinuses and recesses of the lower floor of the abdominal cavity.
37. Intestinal suture. Classification. Types, advantages and disadvantages.
38. Topographic anatomy of the stomach. Blood supply, innervation, blood and lymph flow.
39. Gastrostomy. Indications, types, equipment.
40. Topographic anatomy of the liver. Blood supply, innervation, blood and lymph flow.

41. Gastroenterostomy. Indications. Kinds. Advantages and disadvantages.
42. Extrahepatic biliary tract. Blood supply, innervation, blood and lymph flow.
43. Suturing of a perforated stomach ulcer. Kinds. Technic.
44. Topographic anatomy of the pancreas. Blood supply, innervation, blood and lymph flow.
45. Gastric resection. Indications. Classification. Resection by Billroth 1 and Billroth 2 and their modifications. Advantages and disadvantages.
46. Topographic anatomy of the spleen. Blood supply, innervation, blood and lymph flow.
47. Pyloroplasty. Kinds. Indications. Technic.
48. Topographic anatomy of the duodenum. Blood supply, innervation, blood and lymph flow.
49. Resection of the small intestine. Types of inter-intestinal anastomosis. Indications. Advantages and disadvantages.
50. Topographic anatomy of the jejunum and ileum. Blood supply, innervation, blood and lymph flow.
51. Appendectomy, types.
52. Topographic anatomy of the colon (blind, colon). Blood supply, innervation, blood and lymph flow. Features of blood supply to the colon.
53. Resection of the colon. Kinds.
54. Layer-by-layer topography of lumbar region. Lumbar triangle, Lesgaft-Grunfeld rhombus. Blood supply and innervation of the lumbar region.
55. Colostomy. Kinds.
56. Layer-by-layer topography of the retroperitoneal space.
57. Cholecystostomy.
58. Topographic anatomy of the kidneys. Blood supply, innervation, blood and lymph flow.
59. Cholecystectomy. Kinds.
60. Topographic anatomy of the adrenal gland. Blood supply, innervation, blood and lymph flow.
61. Paraneural block.
62. Topographic anatomy of the ureters. Blood supply, innervation, blood and lymph flow.
63. Surgical accesses to the organs of retroperitoneal space. Nephrostomy.
64. Blood and lymphatic vessels of the retroperitoneal space.
65. Nephrectomy.
66. The nerves of the retroperitoneal space.
67. Nephroptosis. Operations for nephroptosis. Kinds.
68. Pelvis. Borders, external landmarks. Skeleton, ligaments and joints of the pelvis.
69. Novocaine blockade of the spermatic cord and the round ligament of the uterus. Intra-phase novocaine blockade on Shkolnikov-Selivanov.
70. The muscles of the pelvis. The muscles of the pelvic floor. Muscles of the urogenital diaphragm.
71. Drainage of the pre-bubble cellular space by Buyalsky-mcwhorter.
72. Vessels of the pelvis. Innervation of the pelvis.
73. General principles of surgical treatment of rectal cancer. Palliative and radical operations. Indications. Kinds.
74. Cystostomy.
75. The cavity of the pelvis. Floors of the pelvic cavity. Course of the peritoneum.
76. Puncture of the abdominal cavity through the posterior arch of the vagina.
77. Fascia and cellular spaces of the pelvis.
78. Operations for ectopic pregnancy. Kinds.
79. Topographic anatomy of the rectum. Blood supply, innervation, lymph flow.
80. Dropsy of the testicle (hydrocele). Surgical treatment. Operations Of Winkelmann, Bergman. Technic.
81. Topographic anatomy of the bladder. Blood supply, innervation, lymph flow.
82. Varicocele. Surgical treatment. Kinds. Operations Of Ivanishevich, Palomo.
83. Topographic anatomy of the uterus, its appendages, and fallopian tube. Ovary. Blood supply, innervation, lymph flow.
84. Peritoneum. Peritoneal cavity.
85. Topographic anatomy of the spinal cord.
86. Lumbar puncture

87. Laminectomy.

IV КУРС ЛЕЧЕБНЫЙ ФАКУЛЬТЕТ
МОДУЛЬНЫЕ ВОПРОСЫ К ИТОГОВОМУ ЗАНЯТИЮ
«ПРАКТИЧЕСКИЕ НАВЫКИ»

1. Пункция плевральной полости.
2. Блокада межреберных нервов.
3. Ушивание проникающих ранений грудной полости (открытый пневмоторакс).
4. Поднадкостничная резекция ребра.
5. Лечение поверхностного мастита.
6. Лечение интрамаммарного мастита.
7. Лечение ретромаммарного мастита.
8. Радикальная мастэктомия по Холстеду-Мейеру.
9. Торакотомия передне-боковая.
10. Торакотомия задне-боковая.
11. Торакотомия боковая.
12. Пульмонэктомия правосторонняя при воспалительных заболеваниях / раке.
13. Пульмонэктомия левосторонняя при воспалительных заболеваниях / раке.
14. Пункция перикарда.
15. Ушивание ран сердца.
16. Оперативное лечение гнойного медиастинита. Дорсальная медиастинотомия по Насилову.
17. Оперативное лечение гнойного медиастинита. Дорсальная медиастинотомия по Насилову в модификации Хайденхайна.
18. Оперативное лечение гнойного медиастинита. Надгрудинная шейная медиастинотомия по Разумовскому.
19. Оперативное лечение гнойного медиастинита. Медиастинотомия по Маделунгу.
20. Лапароцентез.
21. Срединная лапаротомия и ревизия органов верхнего и нижнего этажей брюшной полости.
22. Трансректальная лапаротомия.
23. Параректальная лапаротомия.
24. Грыжесечение при косых паховых грыжах. Пластика передней стенки пахового канала по Мартынову.
25. Грыжесечение при косых паховых грыжах. Пластика передней стенки пахового канала по Жирану-Спасокукоцкому.
26. Грыжесечение при косых паховых грыжах. Пластика пахового канала по Кимбаровскому.
27. Грыжесечение при прямых паховых грыжах. Пластика задней стенки пахового канала по Бассини.
28. Грыжесечение при прямых паховых грыжах. Пластика задней стенки пахового канала по Кукуджанову.
29. Грыжесечение при пупочных грыжах. Пластика передней брюшной стенки по Лексеру.
30. Грыжесечение при пупочных грыжах. Пластика передней брюшной стенки по Сапежко.
31. Грыжесечение при пупочных грыжах. Пластика передней брюшной стенки по Мейо.
32. Грыжесечение при бедренных грыжах паховым способом.
33. Грыжесечение при бедренных грыжах бедренным способом.
34. Гастростомия по Витцелю.
35. Гастростомия по Штамму-Кадеру.
36. Гастростомия по Топроверу.
37. Ушивание ран и прободных язв желудка или 12-перстной кишки.
38. Доступ к забрюшинно расположенному отделу 12-перстной кишки и поджелудочной железе (по Кохеру).
39. Холецистэктомия от дна.
40. Холецистэктомия от шейки.
41. Ушивание ран тонкой кишки и толстой кишки.
42. Резекция тонкой кишки с наложением анастомоза «конец-в-конец».
43. Резекция тонкой кишки с наложением анастомоза «бок-вбок».

44. Резекция дивертикула Меккеля.
45. Аппендэктомия.
46. Наложение двухствольного искусственного заднего прохода (операция Майдля).
47. Метод временной остановки кровотечения (прием Прингла) при ранениях печени.
48. Гемостатические швы печени Кузнецова-Пенского, Опеля.
49. Паранефральная новокаиновая блокада по А.В. Вишневскому.
50. Доступ в забрюшинное пространство по Федорову.
51. Доступ в забрюшинное пространство по Бергману-Израэлю.
52. Доступ в забрюшинное пространство по Симону.
53. Доступ в забрюшинное пространство по Пеану.
54. Нефрэктомия.
55. Нефропексия.
56. Резекция и шов мочеточника.
57. Пункция мочевого пузыря.
58. Высокое сечение мочевого пузыря (цистостомия).
59. Ушивание ран мочевого пузыря.
60. Оперативное лечение водянки яичка. Операция Винкельмана.
61. Оперативное лечение водянки яичка. Операция Бергмана.
62. Оперативное лечение варикоцеле. Операция Иванисевича.
63. Оперативное лечение варикоцеле. Операция Паломо.
64. Пункция брюшной полости через задний свод влагалища.
65. Люмбальная пункция.
66. Ляминэктомия. Техника выполнения.