

Вопросы для экзамена по дисциплине топографическая анатомия и оперативная хирургия
для студентов 4 курса
по специальности «Лечебное дело»
факультета иностранных учащихся с английским языком обучения
на 2022-2023 учебный год

EXAMINATION QUESTION ON OPERATIVE SURGERY AND TOPOGRAPHIC ANATOMY FOR FOREIGN STUDENTS

Common questions

1. Subject and aims of topographic anatomy and operative surgery. Topographo-anatomical region, external landmark, projection.
2. Surgical instruments, classification, rules of use.
3. Classification of operations. Main rules and stages of surgical operation.
4. Main rules of disconnection and connection of tissues. Kinds of knots, sutures (skin and muscular sutures).
5. Fascias of human body. Practical significance.
6. Concept about transplantation of organs and tissues.

Topographic anatomy and operative surgery of head and neck

1. Topographic anatomy of brain department of the head (fronto-parieto-occipital, temporal, mastoid regions).
2. Topographic anatomy of face department of the head (deep, buccal and parotidomasseteric regions).
3. Topography and projections of vessels and nerves of the head. Topographic anatomy of venous system of the head. Anastomoses between superficial and intracranial veins of the head, practical significance.
4. Surgical d-bridement of wounds (penetrating and not penetrating) of the head. Ways of control of bleeding from vessels of soft tissues, diploic veins, venous sinuses.
5. Characteristics of incisions on the face, requirements to them.
6. Lancing of the retropharyngeal abscess.
7. Surgical treatment of purulent parotiditis.
8. Osteoplastic and decompressive trepanation of the skull. Indications, technique.
9. Anthrotomy: indications, technique, complications.
10. Classification and topography of fascias of the neck. Practical significance.
11. Triangles of the neck. Practical significance.
12. Projections and topographic anatomy of neurovascular fascicles of the neck. Reflexogenic zones of the neck, practical significance.
13. Topographic anatomy of neck organs: larynx, trachea, pharynx, esophagus, thyroid gland.
14. Fat spaces of the neck. Ways of pus distribution.
15. Kinds of incisions on the neck.
16. Subclavian vein catheterization by Seldinger. Features of operation on the veins of the neck.
17. Levels and technique of ligation of carotid arteries. Ways of collateral circulation.
18. Operations at pathology of carotid vessels: endarterectomy, balloon dilatation and stentation, prosthetics.
19. Tracheostomy. Indications, kinds, stages, complications. Conicotomy.
20. Operations on thyroid gland (resection, enucleation of the node). Stages. Complications and prevention of them.

Topographic anatomy and operative surgery of the chest

1. Layer-by-layer topography of chest wall.
2. Topographic anatomy of mammary gland. Lymphatic outflow. Ways of metastasis at cancer of mammary gland. Classification of mastitis, surgical treatment. Operations at cancer of mammary gland.
3. Topographic anatomy of intercostals space, pleural cavity, lungs.
4. Topographic anatomy of organs of mediastinum.
5. Topographic anatomy of diaphragm. Weak places.
6. Pneumothorax. Kinds. First aid, first medical assistance and specialized treatment of pneumothorax.
7. Pleuracentesis: indications, technique, complications.
8. Resection of the rib. Kinds, indications, technique, complications.
9. Approaches to the organs of thoracic cavity.
10. Operations on the lungs: pneumotomy, pulmonectomy, resection (lobar, segmental, marginal).
11. Technique of wound closure of the heart. Pericardiocentesis. Concept about aortocoronary by-pass, balloon angioplasty, stentation and heart transplantation. Methods and complications.
12. Concept about surgical treatment of acquired and congenital heart [valvular] diseases. Esophagoplasty.
13. Operations in coronary heart disease. Heart transplantation.

Topographic anatomy and operative surgery of abdominal cavity

1. Topographic anatomy of front abdominal wall and its weak places (white line, umbilical ring, inguinal and femoral fossae).
2. Surgical anatomy of inguinal and femoral canals: walls, rings, contents. Path of testes' descent to scrotal position.
3. Hernias, factors of herniation. Classification. Hernial elements. Surgical anatomy of inguinal (oblique, direct, acquired, congenital), femoral, umbilical hernias and hernias of white line.
4. Surgical anatomy of strangulated and sliding hernias.
5. Operation of herniotomy. Stages. Features of operations at sliding and congenital hernias, strangulated inguinal and femoral hernias. Complications.
6. Ways of plastics of the anterior wall (by Martynov, Girard, Spasocucotsky, suture of Kimbarovski) and posterior wall (by Bassiny, Postempsky) of the inguinal canal. Characteristics.
7. Ways of plastics of the femoral canal (by Bassiny, Rudjy, Parlavechcho). Characteristics.
8. Ways of plastics of hernial gates at umbilical hernias and hernias of white line (Mayo, Sapezhko, Lexer).
9. Anatomico-surgical evaluation of operative approaches to organs of the abdominal cavity.
10. Topography of peritoneum. Bursas, canals, sinuses, recesses of upper and lower floor of the abdominal cavity. Operative approaches to the cavity of omental bursa, characteristics.
11. Topographic anatomy of organs of the abdominal cavity (stomach, duodenum, liver, spleen, pancreas, small and large intestine). Topographic anatomy of anhepatic biliary tracts.
12. Classification of intestinal sutures. Requirements. Kinds, technique and characteristics of intestinal anastomoses.
13. Resection of small intestine and different parts of large intestine. Indications, technique and features of resection. Concept about hemicolectomy.
14. Operation of gastrostomy, enterostomy, colostomy. Indications, kinds, characteristics. Concept about anus praeternaturalis.
15. Gastroenterostomy. Indications, kinds, characteristics. Concept about vicious circle.
16. Stomach resection (Bilroth 1, Bilroth 2, Bilroth 2 by Hofmeister-Finsterer modification). Indications, stages, characteristics.
17. Indications and technique of suturing of perforated ulcers of stomach and duodenum.
18. Vagotomy and draining operations on stomach. Indications, kinds, characteristics.
19. Operations on anhepatic biliary tracts (cholecystectomy, cholecystostomy, choledochotomy, choledochoduodenostomy, choledochojejunostomy, papillosphicterotomy.). Operative approaches, indications, stages, characteristics.
20. Concept about resection of liver, pancreas, spleen. Pancreaticoduodenal resection. Operation of splenectomy: indications, stages, characteristics.
21. Ways of bleeding arrest from parenchymal organs.

22. Concept about liver, pancreatic and spleen transplantation.
23. Appendectomy: indications, approaches, kinds, technique. Ways of pus distribution at perforated form of appendicitis. Meckel's diverticulum: topography, removal.

Topographic anatomy and operative surgery of retroperitoneal space and pelvis

1. Topographic anatomy of lumbar region and retroperitoneal space, kidneys, ureters, epinephroses, vessels, vegetative plexuses, fat spaces.
2. Indications, technique, substantiation of paranephral block.
3. Anatomico-surgical evaluation of operative approaches to kidneys and ureters. Concept about operations on kidneys (nephrotomy, nephrostomy, pyelotomy, nephrectomy, nephropexy, resection of kidney).
4. Suture of ureter. Concept about ureteroplasty.
5. Topographic anatomy of pelvis: compartments, fascias, fat spaces. Genital differences. Topographic anatomy of pelvic organs. Blood supply, innervation of pelvic organs. Lymphatic outflow.
6. Topographic anatomy of perineum. Genital differences.
7. Pudendal block, puncture of abdominal cavity through posterior vaginal fornix, colpotomy: indications, technique.
8. Operation of paracentesis of urinary bladder, cystotomy, cystostomy: indications, technique. Concept about prostatectomy.
9. Surgical approach with rupture of the bladder. Ways of pelvic fat spaces draining at traumas of pelvic organs.
10. Operations on rectum (at haemorrhoid and cancer).
11. Operations at hydrocele.

Topographic anatomy and operative surgery of limbs

1. Projections of vessels and nerves of the upper limb.
2. Topographic anatomy of upper limb (infraclavicular, axillary, scapular, deltoid regions; regions of arm, cubital fossa, forearm, hand; shoulder, elbow and wrist joints; fat spaces, ways of pus distribution).
3. Projections of vessels and nerves of the lower limb.
4. Topographic anatomy of lower limb (gluteal region; regions of thigh, popliteal fossa, leg, foot; hip, knee, ankle, talocalcaneonavicular, tarsometatarsal joints; canals, fat spaces, ways of pus distribution).
5. Classification of pyoinflammatory processes of the hand (whitlow, phlegmons). Operative treatment of whitlows. Principles of surgical treatment of pyoinflammatory processes of limbs.
6. Classification of fractures. Kinds of osteosynthesis (extramedullary, intramedullary, compressivedistractive osteosynthesis).
7. Classification of osteotomy. Indications.
8. Kinds of bone resection. Indications. Concept about osteoplasty.
9. Concept about operations on joints: arthrotomy, arthrorisis, arthrodesis, arthroplasty, joint resection, joint plasty (classification, indications).
10. Indications and technique of joint puncture. Complications.
11. Classification and requirements to sutures of tendons. Kinds of sutures. Concept about tendon grafting.
12. Amputations of limbs: indications, classification, stages of operation.
13. Formation of somatic nerve plexuses. Branches of cervical, brachial, lumbar and sacral plexuses. Anatomical structure of peripheral nerve.
14. Classification of injuries of nerve. Pathomorphology of nerve in case of it's injuring.
15. Suture of nerve (classification, requirements). Kinds of nerve regeneration.
16. Classification of bleedings. Ways of bleeding arrest.
17. Indications and technique of ligation of vessels in wound and in course. Concept of collateral and reduced circulation.
18. Levels of ligation of axillary, brachial, femoral arteries. Ways of collateral circulation.
19. Classification of sutures of vessels. Requirements to sutures of vessels.
20. Operations at occlusions and aneurysms of vessels. Concept about plastic and by-pass operations on vessels.
21. Concept about microsurgical operations on vessels. Operation of extremity replantation.

22. Operative treatment of varix dilatation of veins of lower limb.