2026

TOPICS OF THE PRACTICAL CLASSES ON TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY

4th YEAR OF EDUCATION

1) Topographic anatomy of abdominal wall. Abdominal hernias.

- Topography of the abdominal wall.
- Surgical approaches to the organs of abdominal cavity.
- Hernia: definition, structure, classification.
- Topography of the inguinal canal. Surgical treatment of direct and indirect inguinal hernias.
- Surgical treatment of congenital hernias.
- Topography of the femoral canal. Surgical treatment of femoral hernias.
- Topography of the umbilical ring. Surgical treatment of umbilical hernias.
- Features in surgical treatment of the sliding and strangulated hernias.

Schemes for drawing at home:

1. Surgical approaches to the organs of abdominal cavity.
2. Structure of abdominal hernia.

2) Topographic anatomy of abdominal cavity. Topographic anatomy of the organs of the supracolic compartment of abdominal cavity.

- Topography of the supracolic compartment of abdominal cavity.
- Spaces of supracolic compartment of abdominal cavity. Topography of the omental bursa and lesser omentum.
- Topography of the stomach.
- Topography of the duodenum.
- Topography of the liver. Topography of the hepatoduodenal ligament.
- Topography of the spleen.
- Topography of the pancreas.
- Topography of the portal vein. Portocaval anastomoses.

Schemes for drawing at home:

1. Peritoneal cavity (sagital section)
2. Blood supplying of stomach

3) Topographic anatomy of the organs of the infracolic compartment of abdominal cavity.

- Topography of the infracolic compartment of abdominal cavity.
- Topography of the small and large intestine.
- Topography of the appendix.

Schemes for drawing at home:

1. Blood supplying of the small and large intestine

4) Intestinal stitches. Operations on small and large intestine.

- Intestinal stitches. Requirements, classification, characteristic.
- Resection of small intestine, indications, types, technique.
- Interintestinal anastomoses, types, technique, advantages and shortcomings.
- Surgical approaches to the appendix. The appendectomy, methods, technique.
- Meckel's diverticulum. Surgical treatment.

Schemes for drawing at home:

1. Intestinal stitches
2. Surgical approaches to appendix

5) Operations on stomach.

- Topography of the stomach.
- Gastrostomy: indications, classification, technique.
- Gastroenterostomy: indications, classification, technique.
- Surgical treatment of perforated ulcers of the stomach.

- Stomach resection according to Billroth I and Billroth II: technique, advantages and shortcomings. Modifications.
- Vagotomy: indications, types, technique.
- Draining operations on the stomach, indications, methods, technique.

Schemes for drawing at home:

1. Gastrostomy (Witzel, Stamm-Kader, Toprover)
2. Stomach resection according to Billroth I and Billroth II

6) Operations on parenchymatous organs of abdominal cavity and gallbladder.

1. Surgical approaches to the liver. Operations at damage of a liver. Liver resection.
2. Topography of gall bladder and bile ducts.
3. The cholecystectomy: indications, technique, complications.
4. Choledochotomy and choledochostomy, indications, types, technique.
5. Biledigestive anastomoses, indications, methods, technique.
6. Topography of the spleen. Splenectomy, indications, technique.
7. Topography of the pancreas. Pancreaticoduodenectomy, indications, technique.

Schemes for drawing at home:

1. Hemostatic sutures on the parenchymatous organs
2. Bile ducts and the Kallot triangle
3. Surgical approaches to the liver and gall-bladder

7) Topographic anatomy of the lumbar region and the retroperitoneal space. Operations on kidneys and ureters.

- Topography of the lumbar region.
- Topography of the retroperitoneal space.
- Topography of kidneys, ureters and suprarenal glands.
- Topography of abdominal aorta and inferior cava vein. Nervous plexus of the retroperitoneal space.
- Characteristics of the surgical approaches to the kidneys and ureters.
- Concepts about nephrectomy, kidney resection, nephrotomy, pyelotomy, nephropexy.

Schemes for drawing at home:

1. Retroperitoneal space
2. Surgical approaches to kidneys and ureters
3. Ureter suture

8) Topographic anatomy of small pelvis and perineum.

1. Small pelvis, borders and compartments.
2. Fascias and spaces of the small pelvis.
3. Differences in topography of organs of male and female small pelvis.
4. Topography of the ischiorectal fossa.
5. Topography of rectum.
6. Topography of perineum.

Schemes for drawing at home:

1. Cellular spaces of the small pelvis
2. Male and female perineum

9) Operations on the organs of small pelvis.

1. Operations on the cancer of rectum.
2. Colostomy: definition, types, indications, technique.
3. Puncture of urinary bladder, indications and technique
4. Cystotomy and cystostomy, indications and technique.
5. Puncture of the vaginal vault, indications and technique.
6. Colpotomy, indications and technique.

10) The overview classes on topics 1-10. Examination computer test.