

**SUBJECT PLAN OF
PRACTICAL CLASSES
on the subject "Surgical diseases"
for 4th year students
of the faculty of foreign students
for the fall semester
(7th semester)**

1. ACUTE APPENDICITIS.
2. COMPLICATIONS OF ACUTE APPENDICITIS.
COMPUTER-ASSISTED SURGERY.
3. HERNIAS.
4. COMPLICATIONS OF GASTRIC ULCER AND
DUODENAL ULCER: STENOSIS, PENETRATION,
MALIGNIZATION, CALCESE ULCER.
5. ACUTE PANCREATITIS.
6. DISEASES OF THE BILIARY TRACT.
7. ACUTE INTESTINAL OBSTRUCTION.

TOPIC 1: ACUTE APPENDICITIS.

Anatomo-physiologic information about the cecum and worm-like process. Classification of acute and chronic appendicitis. Etiology and pathogenesis of acute appendicitis. Clinical picture of acute and chronic appendicitis. Clinical symptoms of acute appendicitis at typical location of the worm-shaped outgrowth. Clinical features of appendicitis at atypical location of the worm-shaped outgrowth. Features of clinical picture of acute appendicitis in children, elderly people, pregnant women. Clinical symptomatology of chronic appendicitis. Principles of diagnosis of acute and chronic appendicitis. Treatment of acute and chronic appendicitis, types of operations, difficulties and errors of treatment. Postoperative management of patients. Classification of complications of acute appendicitis. Clinical symptoms, laboratory and instrumental diagnostics of complications of acute appendicitis, difficulties of diagnostics and treatment. Appendicular infiltrate. Appendicular abscess.

TOPIC 2: COMPLICATIONS OF ACUTE APPENDICITIS. COMPUTER-ASSISTED SURGERY.

Classification of complications of acute appendicitis. Clinical symptoms, laboratory and instrumental diagnostics of complications of acute appendicitis, difficulties in diagnostics and treatment. Appendicular infiltrate: causes; clinical manifestations, laboratory and instrumental diagnostics, treatment. Appendicular abscess: causes; clinical manifestations, laboratory and instrumental diagnostics, treatment.

The concept of computer-assisted surgery. General principles of computer-assisted surgery: creation of a virtual image of a surgical patient; analysis and processing of digital images; computer-assisted diagnostics, preoperative planning, surgical modeling; surgical navigation. Possibilities of machine learning in surgery. Possibilities of artificial intelligence in surgery. Robotic surgery.

TOPIC 3: HERNIAS.

Definition of concepts in herniology, classification of hernias by origin, localization, course. Etiopathogenesis of hernias (predisposing and producing factors). General symptomatology of hernias, diagnostics and surgical treatment. Complications of hernias: classification, clinical picture, diagnostics, differential diagnostics, treatment. Strangulated hernia. Hernia inflammation. Irreducibility of hernia. Coprostasis. Hernias of the white line of the abdomen: anatomical data, clinical picture, diagnostics, treatment methods. Umbilical hernias: anatomical data, classification, clinical picture, diagnostics, differential diagnostics, treatment. Inguinal hernias: anatomical data, classification. Clinical picture, diagnostics, differential diagnostics, treatment. Femoral hernias: anatomical data, clinical picture, diagnostics, differential diagnostics, treatment. The concept of recurrent hernias. Post-operative hernias: clinical picture, diagnostics, treatment. Choice of surgical intervention for hernias. Tension and non-tension methods of hernioplasty. Rare forms of hernias.

TOPIC 4: COMPLICATIONS OF GASTRIC AND DUODENAL ULCER: STENOSIS, PENETRATION, MALIGNIZATION, CALEC ULCER.

Anatomical and physiological information about the stomach and duodenum. Classification, etiology and pathogenesis of penetration of gastric and duodenal ulcers. Clinical picture and diagnostics of penetration. Surgical treatment of penetrating ulcer, postoperative management. Classification, etiology and pathogenesis of pyloroduodenal stenosis, clinical picture depending on the stage of the disease. X-ray and endoscopic semiotics of pyloroduodenal stenosis. Differential diagnostics of pyloroduodenal stenosis. Indications for surgical treatment of pyloroduodenal stenosis, choice of surgical method depending on the stage of the disease, features of pre- and postoperative management. Callous ulcer: clinical picture, diagnostics, differential diagnostics, treatment.

TOPIC 5: ACUTE PANCREATITIS.

Anatomical and physiological information about the pancreas. Topographic anatomy of the pancreas. Classification of acute pancreatitis. Etiopathogenesis of acute pancreatitis. Clinical semiotics of acute pancreatitis depending on the form of the disease. Laboratory and instrumental diagnostics of acute pancreatitis. Assessment of the severity of acute pancreatitis. Differential diagnostics of acute pancreatitis. Tactics of treatment of acute pancreatitis: conservative treatment, indications for surgical treatment, types of surgical interventions.

TOPIC 6: DISEASES OF THE BILIARY TRACT. Anatomical and physiological information about the gallbladder and bile ducts. Classification of diseases of the gallbladder and bile ducts. Methodology for examining patients with diseases of the gallbladder and bile ducts. Cholelithiasis. Acute and chronic cholecystitis: classification, etiopathogenesis, clinical picture, diagnostics, differential diagnostics, treatment methods, types of operations. Complications of cholelithiasis: clinical picture, diagnostics, differential diagnostics, treatment. Possibilities of using modern minimally invasive technologies in diagnostics and treatment of patients with biliary pathology. Differential diagnostics of acute cholecystitis. Choledocholithiasis: causes; clinical manifestations, laboratory and instrumental diagnostics, treatment. Stenosis of the major duodenal papilla: causes, clinical manifestations, laboratory and instrumental diagnostics, treatment. Cholangitis: causes, clinical manifestations, laboratory and instrumental diagnostics, treatment. Mirizzi syndrome: causes, clinical manifestations, laboratory and instrumental diagnostics, treatment. Biliary fistulas and cholelithiasis: causes, clinical manifestations, laboratory and instrumental diagnostics, treatment. Benign tumors of the gallbladder: classification, clinical picture, diagnostics, treatment.

TOPIC 7: ACUTE INTESTINAL OBSTRUCTION.

Acute intestinal obstruction: definition of the concept. Classification (by obstruction level, by morphofunctional nature, stages), etiology, pathogenesis. Features of etiopathogenesis in colonic obstruction. Methods of examination of patients with intestinal obstruction. Clinical picture, diagnostics, differential diagnostics of intestinal obstruction syndrome. Treatment and diagnostic complex: concept, content, evaluation of results. Principles of differential diagnostics and treatment of acute intestinal obstruction. Indications for surgical treatment of acute intestinal obstruction, preoperative preparation, features of postoperative period management, types and tasks of surgical intervention. Prevention of acute intestinal obstruction.