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Khanty-Mansiysk Autonomous Okrug-Ugra
 "Surgut State University"

Approved by
 Deputy Rector for Academic Affairs

_____E.V. Konovalova

"11" June 2025, Record No.5

HOSPITAL SURGERY, PEDIATRIC SURGERY Syllabus

Department

Surgical Diseases

Curriculum

s310501-ЛечДелоИн-25-5.plx
 Specialty 31.05.01 General Medicine

Qualification

General Medicine

Form of education

Full-time

Total (in credits)

13

Total academic hours

360

Control:

including:

Credit Term 10

Exam Term 11

Classes

240

Self-study

84

Control hours

36

| Academic year (Term) | 9 (5.1) | | 10 (3.2) | | 10 (3.2) | | Total | |
|----------------------------|---------|-----|----------|-----|----------|-----|-------|-----|
| Weeks | 17 2/6 | | 16 4/6 | | 17 2/6 | | | |
| Types of classes | Cur | Syl | Cur | Syl | | | Cur | Syl |
| Lectures | 16 | 16 | 16 | 16 | 16 | 16 | 64 | 64 |
| Practical | 64 | 64 | 64 | 64 | 64 | 64 | 192 | 192 |
| Contact | 80 | 80 | 80 | 80 | 80 | 80 | 240 | 240 |
| Self-study | 28 | 28 | 28 | 28 | 28 | 28 | 84 | 84 |
| Control | | | | | 36 | 36 | 36 | 36 |
| Total | 108 | 108 | 108 | 108 | 144 | 144 | 360 | 360 |

The Syllabus is compiled by:
Doctor of Medicine, Professor Darvin V. V.
Senior lecturer, Belova V.A.

The Syllabus

Hospital surgery

Developed in accordance with Federal State Educational
Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on February 9, 2016 No. 95)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, “11” June 2025, Record No.5

The Syllabus was approved by the Department of
Surgical diseases

Head of Department, Doctor of Medicine, Professor Darvin V.V.

| 1. COURSE OBJECTIVES | |
|----------------------|---|
| 1.1 | The aim of the course is to obtain knowledge in etiology, pathogenesis, clinical picture and diagnostics of surgical diseases, methods of treatment and prevention, further development of clinical thinking by mastering practical skills, managing medical records, drawing up a diagnostic programme, interpreting the results of special methods of investigation and solving surgical tactics, and also to evaluate the effectiveness and safety of the therapy. |

| 2. COURSE OVERVIEW | |
|-----------------------------|---|
| Course code (in curriculum) | Б1.О.04.47 |
| 2.1 | Assumed background: |
| | Faculty Therapy |
| | Pathologic Syndromes in Clinical Medicine |
| | Topographic Anatomy, Operative Surgery |
| | General Surgery |
| | Internal Diseases Propaedeutics |
| | Farmacology |
| 2.2 | Post-requisite courses and practice: |
| | Obstetrics |
| | Hospital Therapy (the 5th year) |
| | Oncogynecology |
| | Hospital Therapy (the 6th year) |
| | Hospital Surgery |

| 3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE) | |
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| GPC-6: readiness to maintain medical records | |
| GPC-8: readiness for medical use of drugs and other substances and their combinations in solving professional problems | |
| GPC-11: readiness for the use of medical products for the provision of medical care | |
| PC-5: readiness to collect and analyze patient complaints, his anamnesis data, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of a disease | |
| PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th revision | |
| PC-7: readiness to conduct an examination of temporary disability, participation in the conduct of a medical and social examination, and the determination of a person's biological death | |
| PC-8: the ability to determine the tactics of managing patients with various nosological forms | |
| PC-9: readiness to manage and treat patients with various nosological forms in outpatient and day hospital settings | |
| PC-10: readiness to provide medical care in case of sudden acute illnesses, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care | |
| PC-11: readiness to participate in providing emergency medical care in conditions requiring urgent medical intervention | |
| By the end of the course students must: | |
| 3.1 know: | |

- etiology, pathogenesis, diagnostic criteria (clinical-subjective, physical, laboratory, instrumental).
- main pathological conditions, symptoms, syndromes of diseases and diagnoses nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X-XI revisions.
- methods of treatment and indications for their use, provision of emergency medical care in conditions requiring urgent medical intervention
- the main formulations of the preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X-XI revisions. - maintaining medical records, including in electronic form.
- mechanisms of action, methods of application of pharmacotherapy, medical nutrition, medical devices and methods of nondrug treatment, palliative and personalized medical care.

be able:

- to carry out differential diagnostics, to assess the prognosis (short, medium, long-term) of the course of the disease, to identify acute complications and complications of chronic diseases.
- to determine the main pathological conditions, symptoms, syndromes of diseases and diagnose nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X-XI revisions.
- to formulate treatment and indications for their use, the provision of emergency medical care in conditions requiring urgent medical intervention
- to formulate a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X-XI revisions.
- to keep medical records, including in electronic form.
- mechanisms of action, methods of application of pharmacotherapy, medical nutrition, medical devices and methods of nondrug treatment, palliative and personalized medical care.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

| Topics /Class type | Term / Academic year | Academic hours | Competences | Literature | Interactive | Notes |
|---|-------------------------|----------------|--|------------------------------|-------------|-------|
| Section 1 | | | | | | |
| 1.1 Errors and complications of acute appendicitis. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.2 Pathogenetic aspects of jaundice syndrome. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.3 Venous thromboembolic complications in surgery: pathogenesis, prevention. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.4 Modern principles of diagnosis and treatment of surgical infection. Vacuum therapy (NPWT) for surgical infection. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.5 Kidney transplantation. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.6 Liver transplant. Volumetric formations of the liver. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.7 Modern approaches and trends in the diagnostics and treatment of acute pancreatitis. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 1.8 Sepsis. Evolution of views and approaches to the diagnostics and treatment of surgical sepsis. /Lec/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.9 Acute appendicitis. Complications of acute appendicitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.10 Acute appendicitis. Complications of acute appendicitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.11 Abdominal hernia. Complications of abdominal hernias. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.12 Abdominal hernia. Complications of abdominal hernias. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss / | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.13 Acute cholecystitis. Complications of acute cholecystitis. Complications of acute cholecystitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Obstructive jaundice. Cholangitis. Differential diagnostics. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 1.14 Acute cholecystitis. Complications of acute cholecystitis. Complications of acute cholecystitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Obstructive jaundice. Cholangitis. Differential diagnostics. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.15 Acute pancreatitis. Complications of acute pancreatitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.16 Acute pancreatitis. Complications of acute pancreatitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | B | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.17 Surgical tactics for complications of peptic ulcer disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.18 Surgical tactics for complications of peptic ulcer disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 9 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 1.19 Acute gastrointestinal bleeding. Ulcerative bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute gastrointestinal bleeding. Nonulcer bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.20 Acute gastrointestinal bleeding. Ulcerative bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute gastrointestinal bleeding. Non-ulcer bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 9 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.21 Acute non-neoplastic intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute tumor intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.22 Acute non-neoplastic intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute tumor intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 1.23 Peritonitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Sepsis. Definition. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.24 Peritonitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Sepsis. Definition. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics. /Ss/ | 9 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.25 Sharp abdomen in children. Acute purulentseptic diseases in children. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.26 Sharp abdomen in children. Acute purulentseptic diseases in children. /Ss/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.27 Acute intestinal obstruction in children. /Pr/ | 9 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.28 Acute intestinal obstruction in children. /Ss/ | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.29 Final class for the 9 th term of practical classes. | 9 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 1.30 Final class for the 9 th term of practical classes. | 9 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| Credit /Mark | 9 | | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| Section 2. | | | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.1 Damage to the extrahepatic gallbladder: the main causes, prevention, diagnosis, treatment. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 2.2 Metastatic liver damage. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.3 Diverticular disease. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.4 Chronic pancreatitis - modern view of the surgeon. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.5 Surgical aspects of the parasitic disease's treatment. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.6 Acute bleeding from the digestive tract. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.7 Modern approaches to the treatment of generalized peritonitis. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.8 Benign formation of the anal canal. /Lec/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.9 Patient supervision. Case history. Maintaining medical records. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.10 Patient supervision. Case history. Maintaining medical records. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.11 Vascular bowel disease. Acute thrombosis and embolism of mesenteric vessels. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, scope of surgery. Postoperative management. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.12 Vascular bowel disease. Acute thrombosis and embolism of mesenteric vessels. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, scope of surgery. Postoperative management. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 2.13 Portal hypertension syndrome. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.14 Portal hypertension syndrome. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.15 Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.16 Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.17 Diseases of the diaphragm. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 2.18 Diseases of the diaphragm. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics; indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.19 Chronic pancreatitis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.20 Chronic pancreatitis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.21 Organization of outpatient care. Surgical rooms of the polyclinic, device, equipment, organization of work. Principles of clinical examination of surgical patients. Outpatient surgery centers. Routine surgical care. Medical records. Rules for drawing up certificates of incapacity for work. Health insurance issues. Diagnostics and treatment of surgical diseases in outpatient clinics. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.22 Organization of outpatient care. Surgical rooms of the polyclinic, device, equipment, organization of work. Principles of clinical examination of surgical patients. Outpatient surgery centers. Routine surgical care. Medical records. Rules for drawing up certificates of incapacity for work. Health insurance issues. Diagnostics and treatment of surgical diseases in outpatient clinics. /Ss/ | 10 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2.23 Final class. Testing. Medical history presentation. /Pr/ | 10 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

| 2.24 Final class. Testing. Medical history presentation. /Ss/ | | 10 | 3 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
|---|--|-------------------------|----------------|--|------------------------------|-------------|--|
| Topics /Class type | | Term / Academic year | Academic hours | Competences | Literature | Interactive | |
| 1 | High-tech Surgery /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 2 | Diseases of the colon /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 3 | Diseases of the pancreas /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 4 | Surgery of bulky liver formations /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 5 | Modern principles of surgical infection treatment /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 6 | Gastrointestinal Fistulas /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 7 | Acute and chronic mediastinitis /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 8 | Endocrine surgery. Diseases of the thyroid gland and adrenal glands /Lec/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 9 | Diagnosis and treatment of surgical diseases in outpatient clinics. /Pr/ | 11 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 10 | Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand. Benign tumors of the skin and subcutaneous tissue. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |
| 11 | Mammology. Surgical treatment of benign breast diseases. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | | |

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| 12 | Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand. Benign tumors of the skin and subcutaneous tissue. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 13 | Diagnosis and treatment of surgical diseases in outpatient clinics. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 14 | Patient care. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 15 | Chronic pancreatitis. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 16 | Chronic pancreatitis. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 17 | Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial structures of the esophagus. Diverticula of the esophagus. Reflux disease. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 18 | Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial structures of the esophagus. Diverticula of the esophagus. Reflux disease. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 19 | Nonspecific suppurative diseases of the lungs and pleura. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 20 | Nonspecific suppurative diseases of the lungs and pleura. /Ss/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 21 | Acute and chronic mediastinitis. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 22 | Acute and chronic mediastinitis. /Ss/ | 11 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 23 | Endocrine surgery. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |

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| 24 | Endocrine surgery. /Wed/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 25 | Colon surgery. /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 26 | Colon surgery. /Wed/ | 11 | 2 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 27 | Fistulas of the gastrointestinal tract/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 28 | Gastrointestinal fistulas /Cp/ | 11 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 29 | Bariatric Surgery /Pr/ | 11 | 6 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 30 | Bariatric Surgery /Cp/ | 11 | 4 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 31 | /Counter-work/ | 11 | 0 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |
| 32 | Exam | 11 | 36 | GPC-6, GPC-8 GPC-11, PC-5 PC-6, PC-7, PC-8 PC-9, PC-10, PC-11 | L1.1 L2.1 L2.2 L3.1 | |

| 5. ASSESSMENT TOOLS | | | | |
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| 5.1. Tests and tasks | | | | |
| Supplements | | | | |
| 5.2. Topics for written papers | | | | |
| Supplements | | | | |
| 6. Literature | | | | |
| 6.1. Recommended | | | | |
| 6.1.1. Core | | | | |
| | Authors | Title | Publisher, year | Quant. |

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|------------------------------------|---|---|---|---|
| L1.1 | A. V. Kruchkova, Yu. V. Kondusova, I. A. Poletayeva and others; edited by A. V. Kruchkova. | Care for Surgical Patients | M.: GEOTAR-Media , 2020. Electronic resource | 1 |
| 6.1.2. Supplementary | | | | |
| L2.1 | Gostishchev V.K. | General surgery | M.: GEOTAR-Media, 2020. Electronic resource | 1 |
| L2.2 | Merzlikin N.V. | The Medical History of a Surgical Patient | M.: GEOTAR-Media, 2018. Electronic resource | 1 |
| 6.1.3. Course manuals | | | | |
| L3.1 | Gostishchev V. K | General surgery : The manual | M: ГЭОТАР-Медиа, 2015 Electronic resource | 1 |
| 6.2. Internet resources | | | | |
| E1 | FreeMedicalJournals http://freemedicaljournals.com | | | |
| E3 | MedLine. http://medline.ru . | | | |
| E5 | PubMed Central (PMC). http://www.pubmed.com | | | |
| 6.3.1 Software | | | | |
| 6.3.1.1 | Microsoft Office | | | |
| 6.3.2 Information Referral systems | | | | |
| 6.3.2.1 | "Garant", "Consultant Plus", "Consultant-region" | | | |

| 7. LOGISTICAL SUPPORT OF THE DISCIPLINE (MODULE) | |
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| 7.1 | Classrooms for lecture-type classes, seminar-type classes (practical classes), group and individual consultations, ongoing monitoring and intermediate certification are equipped with standard educational furniture, technical training tools that serve to present educational information |
| 7.2 | Practical classes, group and individual consultations, ongoing monitoring and intermediate certification are conducted in the classroom at the Surgut Design Bureau |
| 7.3 | The list of equipment of the Surgut Design Bureau: |
| 7.4 | Mobile Single Dome Surgical Lamp |
| 7.5 | Palatal surgical aspirator |
| 7.6 | Surgical electrocoagulator |
| 7.7 | Laparoscopic stand, |
| 7.8 | Medical vacuum suction |
| 7.9 | Electrosurgical energy platform |
| 7.10 | Mobile operating table multifunctional electro-mechanical-hydraulic complete set for general surgery |
| 7.11 | Doppler device for transanal hemorrhoidal dearteriation |
| 7.12 | Endovideoscopic surgical stand with a set of additional instruments and optics -Headliner |
| 7.13 | Pulse Oximeter |
| 7.14 | Gynecologist.the treatment chair |

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| 7.15 | tonometer, stethoscope, phonendoscope, thermometer, medical scales, height meter, anti-shock kit, kit and stowage for emergency preventive and therapeutic measures, electrocardiograph, bactericidal irradiator, anesthetic respiratory apparatus, ventilator, infusomat, postoperative suction device, defibrillator with synchronization function, surgical multifunctional universal surgical table, surgical, microsurgical toolkit, universal system of wound expanders with attachment to the operating table, apparatus for monitoring basic functional parameters, respiratory mixture analyzer, electroencephalograph, gastroduodenoscope, duodenoscope (with side optics), colonoscope (pediatric), fibrobronchoscope (pediatric), halogen flash light source for endoscopy, endoscopic television system, endoscopic table, endoscopy trolley, endoscope washing unit, ultrasonic cleaner, endoscopic suction pump, video endoscopic complex, video duodenoscope, video gastroscope, endoscopic suction device, enteroscope, low-energy laser installation, electrosurgical unit, operating video gastroscope, pediatric video gastroscope, <u>operating video colonoscope, pediatric video colonoscope, diagnostic video colonoscope, argon</u> |
| 7.16 | Tools and supplies in an amount that allows students to master the skills required by their professional activities. |
| 7.17 | Moscow State University Simulation Center |
| 7.18 | Classrooms of the MI simulation center, equipped with phantom and simulation equipment, <u>laboratory instruments and supplies in sufficient quantity:</u> |
| 7.19 | Multimedia projector |
| 7.20 | Lap Mentor – (laparoscopy); |
| 7.21 | GI Mentor – (endoscopy); |
| 7.22 | MegaCodeKid mannequin–(child 7 years old for performing resuscitation measures, with the possibility of defibrillation and pacing) |
| 7.23 | BabyAnn – (newborn. Laryngeal foreign body) |
| 7.24 | A dummy for practicing practical CPR skills ResusciBaby |
| 7.25 | A dummy for practicing practical CPR skills ResusciJunior |

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| 7.26 | NursingKid dummy – (a 7-year-old child with a variable physiology for practicing therapeutic and diagnostic measures) |
| 7.27 | Digital auscultation dummy of the heart and lungs . |
| 7.28 | A digital dummy simulator of auscultation of the heart and lungs . |
| 7.29 | The defibrillator |
| 7.30 | The "Intubation Head" simulator. |
| 7.31 | Simulator for subcutaneous and intramuscular injections. |
| 7.32 | Simulator for intravenous injections. |
| 7.33 | The Nursingkid and Nursingbaby simulator. |
| 7.34 | A simulator for practicing puncture and drainage of the chest. |
| 7.35 | A set of instruments for pleural puncture. |
| 7.36 | A simulator for practicing abdominal puncture. |
| 7.37 | Trocar, a set of tools. |
| 7.38 | Tonometer, phonendoscope. |
| 7.39 | Pulse oximeter. |
| 7.40 | Negatoscope |
| 7.41 | Electrocardiograph electrodes. |
| 7.42 | An AMBU bag with a set of face masks. |
| 7.43 | Oxygen mask |
| 7.44 | Intubation kit |
| 7.45 | A set of intubation tubes |
| 7.46 | The infusion system |
| 7.47 | A set of syringes |
| 7.48 | Cubital catheters |
| 7.49 | The fixing patch |
| 7.50 | Drug Simulators |
| 7.51 | Aspirator |
| 7.52 | is a set of tools for conicothymia |
| 7.53 | Laryngeal mask |
| 7.54 | The air compressor |
| 7.55 | Vacuum Aspirator |
| 7.56 | Infuzomat |
| 7.57 | Lineomat |
| 7.58 | Artificial lung ventilation device |
| 7.59 | The gastric tube |
| 7.60 | Nasogastric tube |
| 7.61 | A set of catheters for catheterization of the bladder, a medical tray. |
| 7.62 | Dressings |
| 7.63 | Set of tires |
| 7.64 | Medical trays. |
| 7.65 | Medical furniture. |
| 7.66 | Library of laboratory and instrumental research results |
| 7.67 | Roles for standardized patients |
| 7.68 | Situational Task Library |
| 7.69 | Library of clinical scenarios |
| 7.70 | Assessment Sheet Library |
| 7.71 | Tools and supplies in an amount that allows students to master the skills required by their professional activities. |
| 7.72 | An enema simulator. Esmarch's Circle |