

**MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ  
REPUBLIC**

**Osh state University  
INTERNATIONAL MEDICAL FACULTY  
DEPARTMENT OF SURGICAL DISCIPLINES WITH A COURSE IN  
TRAUMATOLOGY**

**“Approved”**

At a meeting of the department \_\_\_\_\_

Prot. No. \_\_\_\_\_ / from \_\_\_\_\_ 20 \_\_\_\_\_

sciences

Head of Department, \_\_\_\_\_ Kurbanbaev O.I.

**“Approved”**

Chairman of the UMC IMF  
candidate of medical

Bazyeva A.M.

**STUDENT TRAINING PROGRAM  
( SYLLABUS )  
in the discipline " Surgical diseases 2 "**

for students studying in the specialty :  
**560001 - General Medicine ( GM )**

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Form of study: full-time

Total credits : 4 , course - 5 , semester - 10 .

Total labor intensity : 120 hours, incl. : classroom - 48 hours ( lectures  
- 20 hours, practical - 28 hours); IWS - 72 hours.

The number of boundary control (RC) : module - 2 , exam - one semester .

**Compiled** head of the Department MD, Kurbanbaev O.I, MD ,  
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**Osh: 2024-2025**

## **1. OBJECTIVES OF THE DISCIPLINE**

The purpose of teaching and studying the discipline "Surgical Diseases 2" is to form and acquire from students scientific knowledge about diseases of the abdominal cavity and chest, methods of their prevention and treatment, to prepare future doctors for independent work with surgical patients.

## **2. DISCIPLINE TRAINING RESULTS**

As a result of studying the course of surgical diseases, students should:

### **Know:**

- Etiology and pathogenesis of surgical diseases;
- Clinic, course, complications and prognosis during surgery;
- Modern methods of clinical, laboratory and instrumental research;
- Modern principles of conservative and intensive care;
- Conducting preoperative , during and postoperative periods.

### **Be able to :**

- Collect anamnesis from the patient (or relatives);
- Conduct a physical examination of the patient;
- Determine the type and scope of clinical, laboratory and instrumental research methods;
- To carry out palpation, percussion and auscultation of patients ";
- Draw up a plan for the provision of emergency medical care and further intensive care;
- Establish the most trusting relationship with the patient, his relatives and medical workers;
- Work in a team.

### **Own:**

- Conducting primary examination of patients.
- Providing primary care.
- Conducting some of the types of surgical interventions.
- Removing patients from terminal conditions

**3. Prerequisites :** anatomy, physiology, histology, normal and pathological physiology, pathological anatomy, pharmacology, first aid, general nursing, general surgery, faculty surgery.

**4. Post requisites:** hospital surgery, pediatric surgery, traumatology, obstetrics and gynecology, oncology.

## 5. Technological map of the discipline

X semester

| Total hours | Auditory class | lecture | practically | IWS | I module          |             |     | rk | II module         |             |     |    | Final control | sum |
|-------------|----------------|---------|-------------|-----|-------------------|-------------|-----|----|-------------------|-------------|-----|----|---------------|-----|
|             |                |         |             |     | Auditory lessons  |             | IWS |    | Auditory less     |             | IWS | rk |               |     |
|             |                |         |             |     | lecture           | practically |     |    | lecture           | practically |     |    |               |     |
| 120         | 60             | 24      | 36          | 60  | 30                | 30          | 30  | 30 | 30.               | 30          | 30  | 30 | 40            |     |
| points      |                |         |             |     | 30                | 30          | 30  | 30 | 30                | 30          | 30  | 30 |               |     |
| total       |                |         |             |     | M1=30+30+30+30=30 |             |     |    | M2=30+30+30+30=30 |             |     |    | 40            | 100 |

**Note:** *Aud.* - classroom, *TC* - current control, *RK* - midterm control, *M* - module, *IWS* - independent work of students, *IR* - final control.

## 6. Card of accumulation of points by discipline (for example, one module)

The points accumulation map is drawn up on the basis of the discipline's technological map. The points allocated for different types of classes (lectures, seminars, laboratory, IWS) in one module are divided by the number of hours of the corresponding type of lesson and the average score is displayed, which falls on 1 hour of the lesson. From here, by multiplying the average score by the number of hours of each type of activity, the number of points per type of activity within each topic and each current control is derived. This card shows how many points a student can score for each type of lesson within each topic, and from these points, current control points are accumulated.

|            | TC      |    |        |    |     |    | RK | exam |
|------------|---------|----|--------|----|-----|----|----|------|
|            | Lecture |    | Semin. |    | IWS |    |    |      |
| Topics     | h       | p  | h      | p  | h   | p  | 60 | 40   |
| Themes- 1  | 2       | 30 | 2      | 30 |     | 30 |    |      |
| Themes- 2  |         | 30 | 2      | 30 | 5   | 30 |    |      |
| Themes-3   | 2       | 30 | 2      | 30 |     | 30 |    |      |
| Themes- 4  | 2       | 30 | 2      | 30 | 5   | 30 |    |      |
| Topics - 5 | 2       | 30 | 2      | 30 |     | 30 |    |      |
| Themes- 6  | 2       | 30 | 2      | 30 | 5   | 30 |    |      |
| Themes - 7 |         | 30 | 2      | 30 |     | 30 |    |      |
| Themes - 8 | 2       | 30 | 2      | 30 | 5   | 30 |    |      |

|              |           |    |           |    |           |    |                 |                  |
|--------------|-----------|----|-----------|----|-----------|----|-----------------|------------------|
|              |           |    |           |    |           |    |                 |                  |
| Themes - 9   |           | 30 | 2         | 30 |           | 30 |                 |                  |
| Topics - 10  | 2         | 30 | 2         | 30 | 5         | 30 |                 |                  |
| Themes - 11  |           | 30 | 2         | 30 | 5         | 30 |                 |                  |
| Topics - 12  | 2         | 30 | 2         | 30 | 5         | 30 |                 |                  |
| <b>Total</b> | <b>24</b> | 30 | <b>36</b> | 30 | <b>60</b> | 30 | <b>Total 60</b> | <b>Total 100</b> |

### Student assessment criteria.

**lecture - 30 points**

**Practice –30 points for 1 practical lesson.**

**IWS - 60 points**

| Type of class    | attendance | Participation in the discussion | abstract  | role      | tasks     | oral      | tests     | slides    |           | essay     |           | total     |
|------------------|------------|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  |            |                                 |           |           |           |           |           |           |           |           |           |           |
| <b>lecture</b>   | <b>60</b>  | <b>60</b>                       | <b>60</b> |           |           |           |           |           |           |           |           | <b>30</b> |
| <b>practical</b> | <b>5</b>   |                                 | <b>5</b>  | <b>10</b> | <b>10</b> | <b>20</b> | <b>10</b> | <b>15</b> | <b>15</b> | <b>15</b> | <b>15</b> | <b>30</b> |
| <b>IWS</b>       |            |                                 |           |           |           |           |           |           |           |           |           | <b>30</b> |

## **7. Summary of the discipline "Surgical diseases 2"**

### Topic № 1

Surgical anatomy of the stomach and duodenum. Peptic ulcer and duodenum, cause, clinic, diagnosis. conservative and surgical treatment Complications of peptic ulcer and duodenum: perforation, bleeding, penetration , stenosis.

### Topic № 2

Gastric outlet obstruction.Post-resection ( dumping syndrome ) and post vagotomy disorders. Causes. Clinical features, diagnosis, differential .diagnosis conservative and surgical treatment. Fistulas of the gastrointestinal tract. etiology, pathogenesis. Clinical features, diagnosis, treatment.

### Topic № 3

Gallstone disease. Causes of formation and types of gallstones. Differential diagnosis of gallstone disease. Acute calculous cholecystitis. Complications of gallstone disease (choledocholithiasis, obstructive jaundice, cholangitis, cramped gallstones). Methods of surgical treatment of cholelithiasis.

#### Topic № 4

Parasitic and non-parasitic diseases of the liver and lungs. Clinical, course, diagnosis, differential diagnosis of methods of surgical treatment. Complications of parasitic diseases of the liver.

#### Topic № 5

Acute and chronic pancreatitis, etiology, pathogenesis, clinical features, diagnosis, differential diagnosis. Complications of acute pancreatitis. Pancreatic cysts, diagnosis, surgical treatment.

#### Topic № 6

Acute appendicitis etiopathogenesis, diagnosis, differential diagnosis. Complications of acute appendicitis. Surgical treatment.(Acute appendicitis in pregnant women. Acute appendicitis in the elderly and children.).

#### Topic № 7

Intestinal obstruction etiology, pathogenesis, classification, clinical features, diagnosis and differentiation. diagnosis. Complications and surgical treatment of intestinal obstruction. Thrombosis of the mesenteric vessels. Surgical treatment of intestinal infarction.

#### Topic № 8

Peritonitis, etiopathogenesis, diagnosis, differential diagnosis. Surgical treatment of peritonitis. Preoperative preparation and postoperative management of patients with peritonitis.

#### Topic № 9

Colon diseases (Ulcerative colitis, Crohn's disease, diverticulosis, megacolon). Clinical, course, diagnosis, differential diagnosis. Methods of surgical treatment.

#### Topic № 10

Rectal diseases (Hemorrhoids, fissures, fistula, paraproctitis). Clinical features, diagnosis, differential diagnosis and methods of surgical treatment. Management of patients in the pre- and

#### Topic № 11

Abdominal hernias, modern methods of treatment of abdominal hernias. Complicated forms of hernia. Rare forms of hernia.

#### Topic № 12

Open and closed injuries to the abdomen and thorax region. Clinic, diagnosis, differential diagnosis. Providing emergency surgical care.

## 8. THEMATIC PLAN OF DISTRIBUTION OF HOURS BY TYPE OF LESSONS

**Calendar-thematic plan of practical lessons  
for students in the specialty 560001 - General Medicine ( GM )  
(10th semester, 2024-2025 academic year)**

| Lesson number                        | Name of sections, modules, topics   | Number of hours |
|--------------------------------------|---|-----------------|
| 1.                                   | Surgical anatomy of the stomach and duodenum. Peptic ulcer and duodenum, cause, clinic, diagnosis. conservative and surgical treatment Complications of peptic ulcer and duodenum: perforation, bleeding, penetration , stenosis .  | 2h              |
| 2.                                   | Gastric outlet obstruction.Post-resection ( dumping syndrome ) and post vagotomy disorders. Causes. Clinical features, diagnosis, differential .diagnosis conservative and surgical treatment. Fistulas of the gastrointestinal tract. etiology, pathogenesis. Clinical features, diagnosis, treatment.       | 2h              |
| 3.                                   | Gallstone disease. Causes of formation and types of gallstones. Differential diagnosis of gallstone disease. Acute calculous cholecystitis. Complications of gallstone disease (choledocholithiasis, obstructive jaundice, cholangitis, cramped gallstones). Methods of surgical treatment of cholelithiasis. | 2h              |
| 4.                                   | Parasitic and non-parasitic diseases of the liver and lungs. Clinical, course, diagnosis, differential diagnosis of methods of surgical treatment. Complications of parasitic diseases of the liver.  | 2h              |
| 5.                                   | Acute and chronic pancreatitis, etiology, pathogenesis, clinical features, diagnosis, differential diagnosis. Complications of acute pancreatitis. Pancreatic cysts, diagnosis, surgical treatment.   | 2h              |
| 6.                                   | Acute appendicitis etiopathogenesis, diagnosis, differential diagnosis. Complications of acute appendicitis. Surgical treatment. (Acute appendicitis in pregnant women. Acute appendicitis in the elderly and children.).   | 2h              |
| 7.                                   | Intestinal obstruction etiology, pathogenesis, classification, clinical features, diagnosis and differentiation. diagnosis. Complications and surgical treatment of intestinal obstruction. Thrombosis of the mesenteric vessels. Surgical treatment of intestinal infarction.                                | 2h              |
| 8.                                   | Peritonitis, etiopathogenesis, diagnosis, differential diagnosis. Surgical treatment of peritonitis. Preoperative preparation and postoperative management of patients with peritonitis.  | 2h              |
| <b>1st MODULE: SURGICAL DISEASES</b> |   |                 |
| 9                                    | Colon diseases (Ulcerative colitis, Crohn's disease, diverticulosis, megacolon). Clinical, course, diagnosis, differential diagnosis. Methods of surgical treatment.  | 3h              |
| 10                                   | Rectal diseases (Hemorrhoids, fissures, fistula, paraproctitis).  | 3h              |

|                   |  |          |
|-------------------|--|----------|
|                   | Clinical features, diagnosis, differential diagnosis and methods of surgical treatment. Management of patients in the pre- and postoperative period. |          |
| 11                | Abdominal hernias, modern methods of treatment of abdominal hernias. Complicated forms of hernia. Rare forms of hernia.                              | 3h       |
| 12                | Open and closed injuries to the abdomen and thorax region. Clinic, diagnosis, differential diagnosis. Providing emergency surgical care.             | 3h       |
|                   |  |          |
|                   | <b>2nd MODULE: SURGICAL DISEASES</b>   |          |
| Lectures          |  | 20 hours |
| Practical lessons |  | 28 hours |
| Modules           |  |          |

**Self-study program  
(2024-2025 academic year)**

- 1 Anatomical features of the thyroid gland. Classification of diseases of the thyroid gland. Diffusely toxic goiter. Clinic, diagnostics, differential .d iagnostika treatment.
- 2 Nodular goiter. Chronic thyroiditis . Clinic, diagnostics and treatment of thyroiditis .
- 3 Anatomy of the mediastinal organs. Mediastinitis, clinic diagnostics and treatment
- 4 Burns of the esophagus. Foreign bodies of the esophagus , clinic, diagnosis, treatment.
- 5 Achalasia of the cardia . Diverticula of the esophagus, clinic, diagnosis, treatment.
- 6 Anatomy of the chest. Pneumothorax, Hematorax , Piopnevmorex .
- 7 Parasitic diseases of the lungs echinococcosis. Alveococcosis of the lungs. Surgical treatment of parasitic lung diseases
- 8 Suppurative lung diseases, lung abscesses. Lung gangrene. Clinic diagnostics , surgical treatment.
- 9 Bronchiectasis, clinic diagnosis , treatment.
- 10 Empyema of the pleura, causes, clinical picture, diagnosis, treatment.
- 11 Anatomy of the stomach and 12 sc .. Peptic ulcer and 12 sc ..
- 12 Complications of peptic ulcer and 12 sc , perforation. Bleeding, penetration, stenosis, malignancy.
- Methods of conservative and surgical treatment for peptic ulcer and 12p. To. and their complications.
- 13 GOD, post-resection disorders.
- 14 Postvagatomical disorders in GOD
- 15 Fistulas of the gastrointestinal tract. Clinic diagnostics, treatment.
- 16 Anatomy of the spleen. Hypersplenism , clinical picture , diagnosis , treatment.
- 17 Abscesses of the spleen. Clinic diagnostics treatment.
- 18 Open and closed injuries of the abdominal organs.
- 19 Anatomy of the small and large intestine. Inflammatory ulcerative bowel disease.
- 20 Terminal ileitis. Clinic , diagnostics, treatment.
- 21 NNC. Clinic diagnostics treatment.
- 22 Megacolon. Crohn's disease Etiology, pathogenesis, clinical picture, diagnosis, treatment.

- 23 Diverticula of the large intestine, etiopathogenesis , clinical picture , diagnosis, treatment.
- 24 Anatomical features of the rectum. Paraproctitis, Hemorrhoids, Fissure and prolapse clinic diagnosis treatment.
- 25 diverticula of the large intestine
- 26 Anatomy of the cardiovascular system. Aneurysm of the aorta and peripheral arteries.
- 27 Coarctation of the aorta, clinic diagnostics treatment.
- 28 Thrombosis and embolism, clinic diagnostics treatment.
- 29 Atherosclerosis of the aorta and peripheral arteries. Clinic diagnosis and treatment
- 30 Obliterating endarteritis. Clinic, diagnostics, treatment.
- 31 Nonspecific aortarteritis . Clinic, diagnostics, treatment.
- 32 Surgical anatomy of the veins. Varicose veins. Clinic , diagnostics, treatment, methods of surgical treatment.
- 33 Thrombophlebitis. Clinic , diagnostics, treatment, methods of surgical treatment.
- 34 Deep vein thrombosis of the lower extremities. Clinic, diagnostics, surgical treatment.
- 35 PTFS. Etiopathogenesis , clinical picture, diagnosis, treatment.
- 36 Surgical anatomy of the lymphatic system. Lemfedema . Etiology, pathogenesis, clinical picture, diagnosis, treatment.

## 9. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF THE COURSE

| name   | author   | year of issue                                       | address   |
|--|--|---|---|
| <b>Main literature</b>                               |  |   |   |
| <b>Bailey &amp; Love's Short Practice of Surgery</b> | Norman S. Williams<br>P.Ronan O Connell<br>Andrew W.Mc.Caskie                                    | 27 edition ( March 31, 2018)                        | <a href="https://www.amazon.com/Bailey-Loves-Short-Practice-Surgery-dp-1498796508/dp/1498796508/ref=dp_ob_title_bk">https://www.amazon.com/Bailey-Loves-Short-Practice-Surgery-dp-1498796508/dp/1498796508/ref=dp_ob_title_bk</a> |
| <b>Textbook of Surgety</b>                           | somen Das  | July 2010   | <a href="https://ru.scribd.com/document/416045546/A-Concise-Textbook-of-Surgery-S-Das-6th-edition-pdf">https://ru.scribd.com/document/416045546/A-Concise-Textbook-of-Surgery-S-Das-6th-edition-pdf</a>                           |
| <b>Diagnostic Imaging</b>                            | by 1) Ralph Weissleder 2) Jack Wittenberg<br>3) Mukesh Mgh Harisinghani ,<br>4) John W. Chen, MD | Wiley-Blackwell;<br>5th edition<br>(August 2, 2011) | <a href="https://libgen.is/book/bibtex.php?md5=6F6E129927CF6768BFD8238C2934E127">https://libgen.is/book/bibtex.php?md5=6F6E129927CF6768BFD8238C2934E127</a>   |
| <b>A Hand book of surgery</b>                        | Dr mansi sharma  | Edition: 2018                                       | <a href="https://www.exoticindia.com/m/book/details/book/handbook-of-surgery-NAT031/">https://www.exoticindia.com/m/book/details/book/handbook-of-surgery-NAT031/</a>   |
| <b>Essentials of surgery</b>                         | Muhammad sha mim   | October 16, 2020                                    | <a href="https://medicalstudyzone.com/essentials-of-surgery-muhammad-shamim-pdf-free-download/">https://medicalstudyzone.com/essentials-of-surgery-muhammad-shamim-pdf-free-download/</a>   |



## Software and Internet Resources:

1. MedLine - [http:// www.medline - catalog.ru](http://www.medline-catalog.ru)
2. ScientificNefworh - [http :// nature . web . ru](http://nature.web.ru)
3. Medical books - <http://www.medicbooks.info>

## 10. EVALUATION INFORMATION (SCORING TABLE)

| 100 Ball te<br>a system | 30 point<br>system | Alphabetic grade | The digital<br>equivalent of the<br>assessment | Assessment<br>according to the<br>traditional system |
|-------------------------|--------------------|------------------|--|--|
| 87 - 100                | 26 - 30            | BUT              | 4.0  | Excellent  |
| 80 - 86                 | 24 - 25            | IN               | 3.33   | Okay   |
| 74 - 79                 | 22 - 23            | FROM             | 3.0  |  |
| 68 - 73                 | 20 - 21            | D                | 2.33   | Satisfactorily                                       |
| 61 - 67                 | 18 - 19            | E                | 2.0  |  |
| 31 - 60                 | 9 - 17             | Fx               | 0  | Unsatisfactory                                       |
| 0 - 30                  | 0 - 8              | X                | 0  |  |

## 11. SCORING POLICY

In accordance with the points accumulation card, the student can receive points for all types of activities. At lectures, in practical classes and for the implementation of the CDS. At the same time, for current and midterm controls - a maximum of 60 points for 1 module ; final control - maximum 40 .

## 12. COURSE POLICY

**The policy of the discipline is aimed at the most complete mastering by students of the educational material and fruitful cooperation of teachers and students**

**Students are required to:**

- Fully master knowledge, skills and practical skills;
- Respectfully and correctly treat teachers, staff and students;
- Students must be disciplined and tidy, behave with dignity at the University, in hospitals.

- With the beginning of classes in all educational and adjacent premises, the silence and order necessary for the normal course of educational sessions must be ensured;
- The entrance of students into the classroom and exit from the classroom after the start of classes (the actual start of classes by the teacher) is allowed only with the permission of the teacher;
- Be sure to attend lectures, practical (seminars, laboratory) classes, classes on the IWSP;
- To attend practical (seminars, laboratory) classes, examinations in medical uniform;
- Have sanitary books at clinical departments with an admission from the SES.
- Take good care of the property of the department;
- Observe fire safety regulations
- Observe the internal regulations of the academy
- Actively participate in the life of the department (work in the SSS circle, department events, etc.).
- Disable mobile phones during lectures, classes; taking cell phones for exams is prohibited.
- Attendance at lectures is compulsory. In case of missing lectures, the material is worked out in the form of preparing a lecture synopsis and an interview with the lecturer.
- Working out at departments and courses should be carried out after hours - on Saturdays, in the clinic - it is allowed to carry out tests during the night duty of the teaching staff.
- The student is obliged to work out the lesson in the number of hours missed according to the program.
- In case of missing classes by students for a good reason (being in hospital, the occurrence of emergency events: natural disasters, accidents and others), the student or his relatives are obliged to inform the department within 24 hours about what happened in any way (by phone, etc.) with the provision of within three days of documents confirming this circumstance. The supporting documents are: a certificate from a student clinic, a death certificate of loved ones, a donor certificate, a marriage certificate, a child's birth certificate. In the absence of supporting documents, the reason is considered disrespectful.

### **13. LIST OF QUESTIONS AND TASKS ON TOPICS AND FORMS OF CONTROL**

1. General principles of preparing patients for surgery.
2. Preoperative preparation and postoperative administration of patients with gastrointestinal diseases.
3. Administration tactics for patients operated on the esophagus.
4. Foreign bodies of the esophagus, causes, clinical picture, diagnosis, treatment.
5. Esophageal burns, etiology, clinical picture, diagnostics, treatment.
6. Diverticula of the esophagus, classification, clinical picture, diagnosis, differential diagnosis, surgical treatment.
7. Achalasiacardia, etiology, pathogenesis, clinical picture, diagnosis, treatment.
8. Peptic ulcer of the esophagus, etiology, clinic, diagnosis, treatment.
9. Benign tumors and cysts of the esophagus, clinic, diagnosis, treatment.
10. Anatomy, physiology of the stomach. Diagnostic methods for stomach diseases.
11. Preoperative preparation and postoperative management of patients with ulcer and duodenal ulcer.
12. Iatrogenic damage to the biliary tract, etiology, diagnosis, treatment.
13. Foreign bodies of the stomach and duodenum 12, symptoms, diagnosis, treatment.
14. Peptic ulcer, classification, clinical picture, diagnosis, treatment.
15. Perforated duodenal ulcer 12, clinic, diagnosis, treatment.

16. Duodenal ulcer disease, bleeding, clinical picture, diagnosis, treatment.
17. Combined gastric ulcer and 12 duodenal ulcer.
18. Differential diagnosis of perforated intestinal ulcer 12p, diagnosis of covered perforation of 12p intestine.
19. Malignant gastric ulcer, clinical picture, diagnosis and treatment tactics.
20. Methods of surgical treatment of ulcer and duodenal ulcer.
21. Stomach resections, types, indications, disadvantages, advantages.
22. Postoperative complications during surgery for ulcer and intestinal 12p.
23. GOD. Agastral asthenia, pathogenesis, symptoms, treatment.
24. GOD. Reflux esophagitis, clinic, treatment.
25. GOD. Peptic ulcer.
26. GOD. Postvagotomy syndromes, clinical picture , diagnostics, treatment.
27. GOD. Postvagotomy diarrhea, etiopathogenesis , clinical picture , treatment.
28. GOD. Hypoglycemic syndrome, clinical picture, diagnosis, treatment.
29. Lead loop syndrome, clinical picture, diagnostics, treatment.
30. Dumping syndrome, etiopathogenesis , clinical picture, diagnosis, treatment.
31. Zollinger-Alison syndrome , clinic, diagnosis, treatment.
32. Preoperative preparation of patients with diseases of the colon and rectum.
33. Intestinal fistulas, classification, clinical picture, diagnosis, treatment.
34. Clinic, diagnostics of intestinal fistulas.
35. Surgical treatment of intestinal fistulas.
36. NUC, etiopathogenesis , clinical picture, diagnosis, treatment.
37. Differential diagnosis and surgical treatment of NUC.
38. Dolichosigma , clinic, diagnostics, differential diagnostics, treatment.
39. Hirschsprung 's disease , classification, etiopathogenesis , clinical picture, diagnosis, treatment.
40. Treatment and types of surgery for Hirschsprung's disease .
41. Anatomy, physiology of the liver and biliary tract.
42. Instrumental research methods for diseases of the biliary system.
43. Preoperative preparation and postoperative management of patients operated on for the liver, biliary tract and pancreas.
44. Classification, pathological anatomy , diagnosis of acute cholecystitis.
45. Acute cholecystitis, classification, clinical picture, diagnosis, treatment.
46. Complications of acute cholecystitis, differential diagnosis , endoscopic treatment.
47. Indications for intraoperative cholangiography .
48. Purulent cholangitis, etiology, clinic, treatment.
49. Indications for choledochostomy and bilidegistivny anastomoses.
50. Obstructive jaundice, etiology, clinical picture, diagnosis, treatment.
51. Obstructive jaundice, classification, clinical picture, diagnostics.
52. Internal biliary fistulas, clinic, diagnosis, treatment.
53. Tactics for obstructive jaundice, differential diagnosis and surgical treatment.
54. Methods of operational diagnostics, indications and reoperations in PCES.
55. Portal hypertension syndrome, classification, clinical picture, diagnosis, treatment.
56. Hemorrhoids, etiology, clinic, diagnosis, treatment.
57. Diagnostics, differential diagnostics , complications of hemorrhoids.
58. Prolapse and fissure of the rectum, clinic, diagnosis, treatment.
59. Pararectal fistulas, classification, clinical picture , diagnosis, treatment.
60. Acute paraproctitis, etiopathogenesis , classification, clinical picture, diagnosis, treatment.

