

Application to the work program

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation

BANK OF ASSESSMENT TOOLS

LIVER SURGERY

Speciality: **31.05.01 GENERAL MEDICINE**

Department: **FACULTY OF SURGERY AND TRANSPLANTOLOGY**

Form of study: **FULL-TIME**

Nizhny Novgorod
2021

1. Fund of assessment tools for current monitoring of progress, intermediate certification of students in the discipline

This Fund of Evaluation Funds (FOS) for the discipline "Liver surgery" is an integral part of the work program of the discipline "Liver surgery". This FOS is subject to all the details of the approval presented in the RPD for this discipline.

2. List of evaluation tools

To determine the quality of mastering the educational material by students in the discipline "Liver surgery", the following assessment tools are used:

№	Estimator	Brief description of the evaluation tool	Presentation of the evaluation tool in the FOS
1	Interview	A means of control, organized as a special conversation between a teacher and a student on topics related to the discipline being studied, and designed to clarify the amount of knowledge of the student in a particular section, topic, problem, etc.	Questions on topics / sections of the discipline

3. List of competencies indicating the stages of their formation in the process of mastering the educational program and types of assessment tools

Code and wording of competence	Stage formation of competence	Controlled sections of the discipline	Evaluation tools
PC-5	Current	Section 1. Diagnosis and treatment of volumetric formations of the liver. Indications and contraindications for surgical treatment of the liver.	
		Topic 1.1. Surgical anatomy of the liver and biliary tract.	Interview
		Topic 1.2. Radiation symptoms of volumetric formations of the liver.	Interview
		Topic 1.3. Minimally invasive interventions on the liver.	Interview
		Topic 1.4. Types of liver resections, indications and contraindications.	Interview
PC-5	Current	Section 2. Surgical technique of liver resection. postoperative period.	
		Topic 2.1. Liver resection technique.	Interview
		Topic 2.2. Treatment of liver abscesses.	Interview
		Topic 2.3. Management of patients in the postoperative period after surgical treatment of the liver.	Interview
PC-5	Intermediate	Section 1. Diagnosis and treatment of volumetric formations of the liver. Indications and contraindications for surgical treatment of the liver. Section 2. Surgical technique of liver resection. postoperative period.	Interview

4. The content of the evaluation means of current control

Current control is carried out by the teacher of the discipline when conducting classes in the form of: interview.

4.1. Interview questions for assessing competencies: PC-5

1. General issues of diagnosis and treatment of surgical diseases of the liver and biliary system.
2. History and current trends in surgery of the liver and biliary system.
3. Surgical anatomy of the liver and biliary tract.
4. Physiology of the liver and biliary tract.
5. The main laboratory, biochemical markers of liver pathology.
6. Instrumental methods for diagnosing surgical diseases of the liver and biliary tract.
7. Radiation symptoms of volumetric formations of the liver and biliary tract.
8. Surgical diseases of the liver and biliary tract.
9. Functional state of the liver in surgical pathology.
10. Rare diseases and congenital anomalies of the liver and biliary tract.
11. Benign tumors of the liver.
12. Nonparasitic liver cysts.
13. Parasitic diseases, liver abscesses.
14. Cirrhosis of the liver and portal hypertension.
15. Malignant tumors of the liver.
16. Primary liver cancer (hepatocellular carcinoma, cholangiocellular carcinoma).
17. Metastatic liver disease.
18. Cancer of the gallbladder and bile ducts.
19. Mechanical jaundice.
20. Injury to the liver and biliary system.
21. Minimally invasive interventions on the liver.
22. Laparoscopic and percutaneous needle liver biopsy.
23. Percutaneous transhepatic cholangiostomy under ultrasound control.
24. Types of liver resections, indications and contraindications.
25. Liver resection technique.
26. Reconstructive surgery of the bile ducts.
27. Liver transplant.
28. Treatment of liver abscesses.
29. Percutaneous transhepatic drainage of liver abscesses under ultrasound control.
30. Management of patients in the postoperative period after surgical treatment of the liver.

5. The content of the evaluation means of intermediate certification

Intermediate certification is carried out in the form of interview questions

5.1 List of control tasks and other materials necessary for assessing knowledge, skills and experience: interview questions (see paragraph 4.1)

Intermediate certification in the 8th semester of the 4th is carried out in the form of credit

5.1.1. The list of questions for the interview at the intermediate certification in the discipline "Liver surgery " are presented in paragraph 4.1

6. Criteria for evaluating learning outcomes

For credit:

Learning Outcomes	Evaluation criteria	
	Not credited	Passed

Completeness of knowledge	The level of knowledge is below the minimum requirements. There were gross errors.	The level of knowledge in the amount corresponding to the training program. Minor errors may be made
Availability of skills	When solving standard problems, the basic skills were not demonstrated. There were gross errors.	Demonstrated basic skills. Typical tasks are solved, all tasks are completed. Minor errors may be made.
Availability of skills (possession of experience)	When solving standard problems, basic skills were not demonstrated. There were gross errors.	Demonstrated basic skills in solving standard problems. Minor errors may be made.
Motivation (personal attitude)	Educational activity and motivation are poorly expressed, there is no qualitative readiness to solve the assigned tasks	Learning activity and motivation are manifested, readiness to perform the assigned tasks is demonstrated.
Characteristics of the formation of competence	Competence is not fully formed. The available knowledge, skills and abilities are not enough to solve practical (professional) problems. Re-learning required	The formation of competence meets the requirements. The available knowledge, skills and motivation are generally sufficient to solve practical (professional) problems.
Competence level	Low	Medium/High

A complete set of assessment tools for the discipline "Pancreas surgery" is presented on the portal of the LMS of the Volga Research Medical University
<https://sdo.pimunn.net/course/view.php?id=3612>

Developer(s):

Zagainov Vladimir Evgenievich, Doctor of Medical Sciences, Professor of the Department of Faculty Surgery and Transplantation.

Ryabova Elena Nikolaevna, Candidate of Medical Sciences, Associate Professor of the Department of Faculty Surgery and Transplantation.