

# БИОМЕДИЦИНА ВА АМАЛИЁТ ЖУРНАЛИ

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**MODERN ASPECTS OF DIAGNOSING AND TREATMENT OF ACUTE PATHOLOGY  
OF THE ABDOMINAL CAVITY ORGANS**

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 <http://dx.doi.org/10.5281/zenodo.15198937>**ABSTRACT**

This study examines the modern aspects of laparoscopic diagnosis and treatment in the management of acute abdominal pathology. The rapid advancement of endovideosurgery has made laparoscopy an effective and minimally invasive diagnostic and therapeutic method in emergency abdominal surgery. The study is based on a retrospective and prospective analysis of 322 patients hospitalized at the Pediatric Surgery Department of the Republican Scientific Center for Emergency Medical Care, Samarkand branch, between 2007 and 2019. The collected data were statistically and analytically processed to evaluate the efficiency of laparoscopic interventions. The findings indicate that laparoscopic diagnostics confirmed and refined the preliminary diagnosis in 161 (50%) cases, ruled out suspected pathology in 91 (28%) patients, and led to a revised diagnosis in 70 (22%) cases. Laparoscopic surgery was also highly effective in managing acute appendicitis, perforated gastric and duodenal ulcers, peritonitis, and traumatic abdominal injuries, reducing the need for traditional open surgery. Laparoscopy plays a crucial role in emergency abdominal surgery by minimizing unnecessary laparotomies, shortening diagnostic time, and decreasing postoperative complications. Its implementation improves surgical outcomes and enhances patient recovery, making it an optimal method for modern emergency abdominal pathology management.

**Key words :** laparoscopy, acute abdominal organs pathology , diagnostics and treatment .

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## СОВРЕМЕННЫЕ АСПЕКТЫ ДИАГНОСТИКИ И ЛЕЧЕНИЯ ОСТРОЙ ПАТОЛОГИИ ОРГАНОВ БРЮШНОЙ ПОЛОСТИ

### АННОТАЦИЯ

В данном исследовании рассматриваются современные аспекты лапароскопической диагностики и лечения при острой патологии органов брюшной полости. Быстрое развитие эндовидеохирургии сделало лапароскопию эффективным и минимально инвазивным методом диагностики и терапии в неотложной абдоминальной хирургии. Исследование основано на ретроспективном и проспективном анализе 322 пациентов, госпитализированных в отделение детской хирургии Республиканского научного центра экстренной медицинской помощи, Самаркандского филиала, в период с 2007 по 2019 год. Собранные данные были статистически и аналитически обработаны для оценки эффективности лапароскопических вмешательств. Результаты исследования показывают, что лапароскопическая диагностика позволила подтвердить и уточнить предварительный диагноз в 161 (50%) случае, исключить предполагаемую патологию у 91 (28%) пациента и пересмотреть диагноз у 70 (22%) пациентов. Лапароскопическая хирургия также оказалась высокоэффективной в лечении острого аппендицита, перфоративных язв желудка и двенадцатиперстной кишки, перитонита и травматических повреждений брюшной полости, сокращая необходимость в традиционных открытых операциях. Лапароскопия играет ключевую роль в экстренной абдоминальной хирургии, снижая частоту ненужных лапаротомий, сокращая время диагностики и уменьшая послеоперационные осложнения. Ее применение улучшает хирургические результаты и ускоряет восстановление пациентов, делая этот метод оптимальным для лечения острой патологии органов брюшной полости.

**Ключевые слова:** лапароскопия, острая патология органов брюшной полости, диагностика и лечение.

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## QORIN BO'SHLIG'I A'ZOLARINING O'TKIR PATOLOGIYALARINI DIAGNOSTIKASINI VA DAVOLASHNING ZAMONAVIY ASPEKTLARI

### ANNOTATSIYA

Ushbu tadqiqot qorin bo'shlig'i a'zolarining o'tkir patologiyalarini laparoskopik diagnostika va davolashning zamonaviy jihatlarini o'rganishga bag'ishlangan. Endovideoxirurgiyaning tez rivojlanishi laparoskopiyani shoshilinch abdominal jarrohlikda samarali va minimal invaziv diagnostik hamda terapevtik usulga aylantirdi. Tadqiqot 2007–2019 yillar oralig'ida Respublika shoshilinch tibbiy yordam ilmiy markazi Samarqand filiali bolalar xirurgiyasi bo'limida shifoxonaga yotqizilgan 322 nafar bemorning retrospektiv va prospektiv tahliliga asoslangan. Yig'ilgan ma'lumotlar laparoskopik aralashuvlarning samaradorligini baholash uchun statistik va tahliliy usullar yordamida qayta ishlangan. Natijalar shuni ko'rsatdiki, laparoskopik diagnostika 161 (50%) holatda dastlabki tashxisni tasdiqlash va aniqlashtirishga, 91 (28%) bemorda gumon qilingan

patologiyani istisno qilishga, 70 (22%) bemorda esa tashxisni qayta ko‘rib chiqishga imkon berdi. Laparoskopik jarrohlik o‘tkir appenditsit, oshqozon va o‘n ikki barmoqli ichakning perforativ yarasi, peritonit hamda qorin bo‘shlig‘i shikastlanishlarini samarali davolashda o‘zini namoyon qildi va an’anaviy ochiq jarrohlikka ehtiyojni kamaytirdi. Laparoskopiya shoshilinch abdominal jarrohlikda muhim rol o‘ynaydi, ortiqcha laparotomiya ehtimolini kamaytiradi, diagnostika vaqtini qisqartiradi va operatsiyadan keyingi asoratlarni kamaytiradi. Uning qo‘llanilishi jarrohlik natijalarini yaxshilaydi va bemorlarning tiklanish jarayonini tezlashtiradi, bu esa laparoskopiyani qorin bo‘shlig‘i organlarining o‘tkir patologiyalarini davolashda optimal usulga aylantiradi.

**Kalit so‘zlar:** laparoskopiya, qorin bo‘shlig‘i organlarining o‘tkir patologiyasi, diagnostika va davolash.

### INTRODUCTION

Over the past decade, the rapid development of modern technologies in the field of endovideosurgery, both abroad and in our country, has provided a new perspective on the role of this method in emergency surgery. At present, the issue of timely diagnosis and treatment of emergency abdominal pathology remains highly relevant. Laparoscopy in emergency abdominal pathology has evolved from devices with basic diagnostic capabilities to modernized video laparoscopic equipment capable of performing extensive surgical interventions.

**Objective of the Study:** To assess the effectiveness of laparoscopic diagnosis and treatment of emergency abdominal pathology at the modern stage.

#### Materials and Methods:

A prospective and retrospective study was conducted on 322 patients hospitalized at the Pediatric Surgery Department of the Republican Scientific Center for Emergency Medical Care, Samarkand branch, from 2007 to 2019. The results of the examination and treatment were analyzed using statistical and analytical processing methods.

The primary indications for laparoscopy included differentiating between conditions that could potentially be managed conservatively and those requiring urgent surgical intervention for abdominal organ diseases and injuries. Additionally, in cases with unclear clinical presentation, laparoscopy was considered the only optimal diagnostic method. The quantitative analysis of patients is presented in the following table (Table 1).

**Table No. 1**

**According to the number of patients distribution**

No.	Pathology types	of patients ( n=322)	%
1	Closed belly injury	146	45
2	Closed belly injury associated with chest trauma	injury 61	19
3	Open belly injury	90	28
4	Oh my god and ten two fingered intestine complicated by wound , perforation	3	1
5	Acute appendicitis	19	6
6	Sharp calculous cholecystitis	3	1

### Research results and discussion .

Abdomen space is urgent in pathology laparoscopy use objective diagnosis in conjunction with existing diagnostic methods to put the issue noticeable at the level solve with precision to do possible gave This method in 161 (50%) patients in our clinical studies initial diagnosis confirmation and clarification , in 91 (28%) patients research before suspicion done pathology exception to do and 70 (22%) patients diagnosis change possible gave .

Sharp on calculous cholecystitis three from surgery two of them laparoscopic in the method , 1 person to the patient traditional in the method cholecystectomy done . Sharp suffering from calculous cholecystitis all patients reception done from the day The operation was performed within 2 days .

14 of 19 patients (74%) were operated on for acute appendicitis laparoscopic appendectomy to do increased Laparoscopic to appendectomy instructions destructive appendicitis all shapes was , intubation and Diffuse peritonitis is an exception . Sharp appendicitis following shapes identified : catarrhal - 2; phlegmonosis - 11; gangrenous - 1. 11 The patient underwent endoscopic laparotomy of the appendix tail using a ligature technique , in the patient with cyst stitch and in two done by clipping increased of the appendix tail again related to work complications not recorded . Sharp laparoscopy and differential diagnosis in appendicitis through this pathology in diagnosis " in vain number of appendectomies noticeable to the extent to decrease help gave .

From now on except , all are clinically uncertain in situations stomach and ten two fingered intestine of wounds perforation diagnostic laparoscopy increased From the inspection 322 people passed the patient's in three stomach and ten two fingered intestine of the wound perforation signs identified , patients laparoscopic operated on and fatal consequences take not coming minimal invasive from methods used . To all patients gastroduodenal of the wound complicated perforation signs detected . 2 in the patient pierced to the wound laparoscopic stitch In one case , an " open " operation was performed with a large wound - the puncture wound was sutured .

The stomach closed trauma in 47 out of 146 cases laparoscopic surgery practice At the same time , the liver related to damage 10 (21.3%) patients had up to 500 ml hemoperitoneum determined . Wounds superficial is " open " surgery intervention demand don't do it bro Talaq 2 (4.2%) with injuries mixed of the kind with injuries in 4 (8.5%) cases to laparotomy instructions it was determined . Primary videolaparoscopy during hemorrhagic liquid belly from the void released using monopolar coagulation liver hemostasis of wounds ; lateral channels and small pelvis the cavity is drained . As a result of laparoscopy in 28 ( 59.6%) patients belly space in the members signs of significant damage define n ma gan , this in the group in patients blood of loss maximum quantity from 500 ml osmha gan , endoscopic in the method freely evacuated . in 3 (6.4%) cases belly space damage signs not specified .

Laparoscopy current being intestine eclipse early and own on time determination possible gave In research intestine dynamic and mechanical forms of seizure distinguish as well them far large-sized surgery without interference elimination verb opportunities determination for the purpose of carried out .

Peritonitis the reasons laparoscopic diagnosis in 73 patients , including the surgery was done the day before in patients used . Itching purpose of the source of peritonitis its localization distribution , parietal and visceral belly on the screen of changes weight detection , as well as pathological focus elimination to do for laparoscopy use efficiency determination was .

### Conclusions

So hurry up in surgery , relevant when equipped with equipment , modern laparoscopic from technologies use for all opportunities there is By using laparoscopy unnecessary percentage of laparotomy reduction , diagnosis to put time abbreviation and from surgery next complications appearance to be reduction possible .

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