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# WAYS TO IMPROVE THE RESULTS OF LAPAROSCOPIC NISSEN FUNDOPLICATION FOR HIATAL HERNIA

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**Aim of the study**: to determine the optimal zones for trocar insertion when performing laparoskopik fundoplication (LFP) by Nissen, taking into account the physique of the patients.

**Material and methods:** The results of a survey of 216 patients with hiatal hernia (HH) who were hospitalized in a multidisciplinary clinic of the TMA, were analyzed. All of them underwent LFP by Nissen. All patients were divided into two groups. The I group included 96 patients who underwent standard LFP by Nissen. In the II group of 120 patients, when performing LFP, the points of trocar insertion were determined according to the calculations of a computer program developed by us. Among the operated patients, 130 had axial HH (type I), 33 - type II, 45 - type III, and 8 - type IV. There were 104 (48,1%) women, 112 (51,9%) men. The average age was  $55,2\pm4,6$  years. Their average BMI was  $32,2\pm2,5$  kg/cm<sup>2</sup>. In I and II groups, the number of patients with a normosthenic physique was respectively 40 and 51, with an asthenic physique - 23 and 30, and whith a hypersthenic physique - 33 and 39.

In the II group, the points of insertion of instruments for physical therapy depended on the body type of the patients, which were determined on the basis of the program we developed for calculating parameters for inserting instruments for LFP.

**Results:** In the I group, the duration of operation in patients with normosthenic and asthenic physique was on average 100,0 $\pm$ 12,4 minutes, in patients with hypersthenic physique - 115,0 $\pm$ 17,3 minutes. In 4 (4,1%) cases, trocars were reinstalled intraoperatively in patients with hypersthenic physique. In the postoperative period, the following complications were observed: wound seroma - in 2 (2%) patients, dysphagia - in 2 (2%), which were resolved by conservative methods. Based on the determination of the optimal points for trocar insertion in the II group with normasthenic and asthenic physiques, the duration of physical therapy was on average 82,0 $\pm$ 7,3 minutes, with hypersthenic physiques - on average 100,0  $\pm$ 9,1 minutes.

**Conclusion:** Thus, the effectiveness of the program we have developed is determined by the fact that the frequency of intra- and postoperative complications decreases - thereby shortening the duration of the operation and postoperative hospital stay, especially in patients with morbid obesity.

# VIDEOTHORACOSCOPIC INTERVENTIONS FOR CLOSED CHEST TRAUMA

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Aim of the study: study the possibilities of videothoracoscopy (VTS) for closed chest traumas (CCT).

**Material and methods:** For the period from 2016 to the present, 292 patients with CCT were hospitalized in the surgical clinic of the TMA. CCT was more common in men – 203 (69,5%). The average age of the victims was  $37,8\pm1,5$  years. The most common was transport trauma, noted in 136 (46,6%) patients, followed by domestic trauma - in 115 (39,3%). To evaluate the effectiveness of VTS, we divided the patients into 2 groups: the I group consisted of 145 (49,7%) patients, who were examined and treated without the use of VTS; the II group consisted of 147 patients in whom VTS was used at the stages of diagnosis and treatment. In terms of gender, age composition and severity of injury, these groups were comparable to each other. The examination of patients was comprehensive and included, in addition to a general clinical examination, laboratory, as well as non-invasive (ultrasound and x-ray examination of the chest organs, pulse oximetry) and invasive (puncture and drainage of the pleural cavity) research methods, and in patients of II group also VTS. Based on radiography, hemothorax was detected in 13,1% of patients, pneumothorax in 10,2%, and hemopneumothorax in 39,3%.

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Type of pancreatic surgery performed for pancreatic cystic neoplasm

**Conclusion**: This study provides valuable information regarding the pathological and clinical consequences of pancreatic cystic neoplasms. In particular, it is one of the few studies investigating the relationship between sarcopenia, obesity and pancreatic cystic neoplasms in the current literature.

Keywords: IPMN, Mucinous cystic neoplasia, Obesity, Pancreatic cystic neoplasm, Pancreatic surgery, Postoperative complication, Sarcopenia

### MANAGEMENT OF MIGRATED BILIARY PLASTIC STENTS IN A TERTIARY REFERRAL CENTER EXPERIENCE

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**Aim**: The primary treatment for either benign or malignant biliary obstruction is endoscopic biliary stenting. Stent migration might occasionally complicate biliary stenting. Proximal and distal biliary stents migration have been recorded in approximately 3% and 5% of instances, respectively, with big diameter stents, shorter stents being the main reasons. The aim of this study was to analyze the management the migrated biliary stents.

**Method**: This retrospective study included adult patients presenting with proximally and distally migrating biliary stents, performed at Ankara Bilkent City Hospital between January 2021 and December 2023. Indications of ERCP procedures, types of cannulations, types of stents, characteristics of stents, direction of stent migration and various techniques used for retrieval of migrated stents were herein analyzed.

**Results**: Total migration was detected in 188 (%6.1) patients, 146 (4.7%) proximal and 42 (1.4%) distal migrating biliary stents were identified. 112 patients were females, 76 were males. Proximal migration group had 146 (77.7%) patients; 84 (57.5%) females, 62 (42.5) males. Distal migration group had 42 (22.3%) patients; 28 (66.7%) females, 14 (33.3%) males. Type of plastic stents had a significant difference between groups (p<0.001). In the statistical analysis, long stents were more frequently displaced proximally, and short stents were more frequently displaced distally (p<0.001).

**Conclusion**: In our study, while the long stents were more frequently displaced proximally, short stents were more frequently displaced distally. The proximally migrated stent could be retrieved using a variety of endoscopic tools, however distally migrated stents had more complications that that of the proximally migrated stents.

Keywords: Endoscopic biliary stents, Endoscopic management, Endoscopic Retrograde Cholan-giopancreatography, Migration, Retrieval

## FEATURES OF SOFT TISSUE PLASTY IN SURGICAL TREATMENT OF ABDOMINAL HERNIA

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**Relevance.** The problem of abdominal hernias and its treatment has concerned practitioners around the world for many centuries, since there is no consensus on how to completely eliminate the consequen-ces after surgery. Included in the "gold" standard of plastic surgery of the anterior abdominal wall defect using artificial bioprostheses, although it is a reliable alternative to all other methods, does not exclude the development of complications and recurrences of hernias at various times in the postoperative period. In this regard, to this day, scientists are constantly working to solve problems to improve the results of surgical interventions and the quality of life of patients.

**Purpose:** to evaluate the value of alloplasty and establish the causes of complications during surgical treatment of abdominal hernias.

**Material and methods.** We examined 27 (100%) patients who underwent prosthetic plastic surgery in various combinations using polysynthetic material (mesh). The duration of surgical treatment ranged from 1.5 months to 1

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