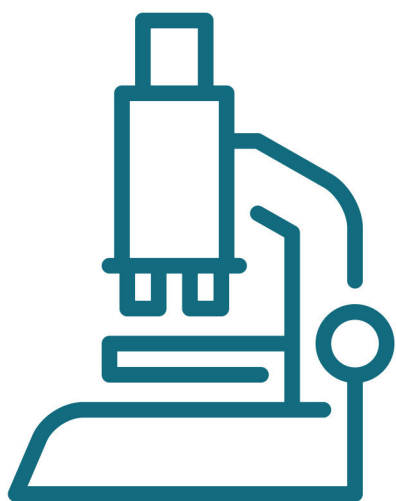


# KHARKIV NATIONAL MEDICAL UNIVERSITY

# ISIC-2019



**KHARKIV NATIONAL  
MEDICAL UNIVERSITY**



**BIOMEDICAL SCIENCES**



undergone CSOs must be registered in the dispensary to address the issue of further rehabilitation.

*Kurchanova Yuliia, Ivanteieva Yuliia, Syrchina Valeriya*  
Kharkiv National Medical University  
Department of Surgery No.3  
Kharkiv, Ukraine  
Scientific advisor: Prof. Lupaltsov V.I.

## **POSTSURGICAL ULTRASONIC MONITORING OF ILEOCOLIC ANASTOMOSIS**

Introduction. Inability of ileocolic and colorectal anastomoses occurs in 12-19% of operated patients with intestinal diseases. Using the latest generations of antibacterial drugs, modern suture materials and improvement of the applying technique of manual and hardware sutures did not affect the frequency occurrence of insolvency of anastomosis after surgery. An important task of colon surgery is solving the problem of effective control and treatment of anastomosis complications.

Aim. To investigate the effectiveness of ultrasound monitoring in the diagnosis of ileocolic anastomosis complications in patients after right-sided hemicolectomy.

Materials and methods. Under medical supervision there were 32 patients at the age of 56 to 78 years old, who had right-sided hemicolectomy for obstructive acute intestinal obstruction of tumoral origin. The operations were performed with laparotomic access. The formation of ileocoloanastomosis was performed with a manual double-row suture. On the 1st, 3rd, 5th, 7th day, an ultrasound examination of the anastomosis zone was carried out with an assessment of the condition of the tissues around the anastomosis, wall thickness and diameter of the small and large intestine in the anastomosis region, the presence of local accumulations of fluid in the abdominal cavity.

Results. As a result of ultrasound monitoring, 4 patients for 3-5th day showed signs of anastomitis and perianostomosal infiltrate - thickening of the walls of the intestine with peripheral compaction of surrounding tissues. There was an extension of the diameter of the small intestine at a distance of 10-15 cm from the anastomosis. These phenomena regressed against the background of intensive antibacterial therapy. Anastomotic leak, which was diagnosed in 3 patients, was characterized by the presence

of heterogeneous hypoechoic fluid foci near the anastomosis and the presence of free fluid in the abdominal cavity, lateral canals and true pelvis was accompanied the development of peritonitis. All patients were operated for the second time with drainage and exteriorization of the anastomosal defect in 2 cases and its resection in one patient.

Conclusions. Ultrasound is an effective method of monitoring the status of anastomoses in the early period after surgery on the colon. The early ultrasound detection of signs of anastomosis or the failure of the sutures provides opportunities for timely correction of these complications.

*Kvitanova Nataliia, Zablodskyy Valerii*  
Kharkiv National Medical University  
Department of Surgery No.2  
Kharkiv, Ukraine  
Scientific advisor: assistant Lesnoy V.V.

## **MODERN METHODS TREATMENT OF ACUTE APPENDICITIS IN PREGNANT**

Introduction. Acute appendicitis (AA) is the most common surgical disease for pregnant, that accompanied by high rates of obstetric complications and rate within 0.2–2.7 percent of maternal mortality.

Aim: to analyze the features of surgical treatment of AA among pregnant.

Materials and methods. A retrospective research of medical histories of 26 patients hospitalized in the surgical department of the Kharkiv Regional Clinical Hospital with an AA clinic at different gestational periods was made. Based on complaints of 26 (100%) patients about pain in the right iliac region; increased body temperature - 21 (80.7%); dyspepsia (nausea and vomiting) - 22 (84.6%); with a positive symptom of Shchetkin-Blumberg - 12 (46.1%); with a positive Brendo`s symptom – 20 (76.9%); with a positive Michelson's symptom – 19 (73.0%); leukocytosis with a shift of the leukocyte formula to the left - 26 (100%); ultrasound research (thickening of the appendix wall on more than 2 mm and its diameter on more than 6 mm) - 15 (57.7%); diagnoses of AA was confirmed and surgery was suggested.

# CONTENT

AKAMINE GODSONJOSHUA CHINEMEREM, RYKOVA YULIA, HORDIICHUK DARIA .....	3
<i>ORGANOMETRIC CHANGES OF THYROID GLAND STRUCTURE IN CHRONIC HYPERTHERMIA</i> .....	3
AKANSHA SINGH, HORDIICHUK DARIA, RYKOVA JULIA .....	4
<i>MORDERN TECHNIQUES IN ANATOMY</i> .....	4
BADALOV ZAUR .....	5
<i>UKRAINIAN AND AZERBAIJANI GIRLS FACE ANATOMY COMPARISON</i> .....	5
BEZEHA YEVHENII, MOLHANOVA ANNA .....	6
<i>MOTOR DISORDERS AND LEVEL OF NORADRENALINE, DOPAMINE, ACETYLCHOLINE IN RATS WITH PARKINSON-LIKE SYNDROME TREATED WITH BRAIN-DERIVED OLIGOPEPTIDES AND STEM CELLS</i> .....	6
BEZRODNAYA ANASTASIYA .....	7
<i>ASSESSMENT OF THE EXPRESSION LEVEL OF THE ENZYME O6-METHYLGUANIN-DNA METHYLTRANSFERASE IN THE LIVER UNDER THE INFLUENCE OF XENOBIOTICS</i> .....	7
BILENKO VICTORI.....	9
<i>THE PREVALENCE OF ALLERGIC DISEASES AND THE ATMOSPHERIC POLLUTION LEVEL IN KREMENCHUG</i> .....	9
BONDAREVA YELYZAVETA .....	10
<i>INFLUENCE OF THE SKULL ARTIFICIAL DEFORMATION ON THE DEVELOPMENT OF THE BRAIN</i> .....	10
BORSHCHOVA ZLATA, POMAZANOV DMYTRO .....	12
<i>CYSTO-DUODENO-COLIC LIGAMENT AND ITS CLINICAL RELEVANCE</i> .....	12
BUROV ANDRIY, VEKSHYN VITALIY, GRABOVETSKAYA EVGENIYA .....	14
<i>APPLICATION OF CARBOXYMETHYLCELLULOSE AS A CARRIER OF MEDICAL PREPARATIONS FOR THE BURN WOUNDS TREATMENT</i> .....	14
CHORNA DARIA, BONDAREVA YELYZAVETA.....	15
<i>EMBRYOGENESIS OF THE HEART</i> .....	15
<i>LIVING DONOR LIVER TRANSPLANTATION. MEDICAL, LEGAL AND BIOETHICAL ISSUES</i> .....	17
CHUPINA V. ....	18
<i>ANATOMICAL AND PHYSIOLOGICAL FEATURES OF THE FEMALE HEART</i> .....	18
FAITH SAMWELE KAHIMBI, HORDIICHUK DARIA, RYKOVA YULIA .....	20
<i>ANATOMAGE TABLE - THE WORLD'S FIRST AND ONLY VIRTUAL DISSECTION TABLE</i> .....	20
HLUSHKO SVITLANA, SLOZ DIANA .....	21
<i>BIOPRINTING TECHNOLOGIES</i> .....	21
HOPTA OLENA .....	22
<i>ANTIMICROBIAL ACTIVITY OF NON-WOVEN POLYMER MATERIAL PROCESSED WITH CU NANOPARTICLES</i> .....	22
ISAIEVA HANNA .....	24
<i>ANTIBACTERIAL THERAPY OF COMMUNITY-ACQUIRED PNEUMONIA IN CHILDREN</i> .....	24
KHARCHENKO ELINA, SKLYARUK DIANA, ONISHCHENKO ANATOLII, TKACHENKO ANTON .....	25
<i>THE CONTENT OF CASPASE-3 IN LIVER HOMOGENATES OF RATS ORALLY EXPOSED TO A CAFFEINATED ENERGY DRINK</i> .....	25
KONOPLIA LINA, TOPOLIUK KATERYNA .....	26
<i>COMPARATIVE CHARACTERISTICS OF THE STRUCTURE OF HUMAN COCHLEA WITH SOME SPECIES OF MAMMALS DURING ONTOGENESIS</i> .....	26
LAVRENTYEV MIKHAIL.....	27
<i>OPTICAL AND COMPUTER ANALYSIS OF THE MAN HAIR PARAMETERS</i> .....	27
LAVRENTYEV MIKHAIL.....	28
<i>MEASURING OF MAN HAIR DIAMETER BY DIFFRACTION METHOD WITH DIGITAL PROCESSING OF RESULTS</i> .....	28
LISOVA YELYZAVETA, SHARUN SABINA, .....	29
<i>METHODS OF REHABILITATION OF CHILDREN WITH PROGRESSING MUSCULAR DYSTROPHY DUSHENNA</i> .....	29
MALAKHOVA DARIYA, BRATCHUK KYRYLO .....	31
<i>COMPARATIVE CHARACTERISTICS OF X-RAY AND MRI IMAGING SOFTWARE</i> .....	31
MARCHENKO IRYNA .....	32
<i>STATE DETERMINATION OF KEY COMPONENTS OF COMPLEMENT SYSTEM IN YOUNG CHILDREN WITH CONGENITAL HYDRONEPHROSIS COMPLICATED BY PYELONEPHRITIS, CAUSED BY E.COLI</i> .....	32
MARCHENKO IRINA, PULYAYEVA YULIYA, .....	33
KHARKIV NATIONAL MEDICAL UNIVERSITY.....	33
DEPARTMENT OF MEDICAL AND BIOLOGICAL PHYSICS AND MEDICAL INFORMATION SCIENCE .....	33
KHARKIV, UKRAINE .....	33
SCIENTIFIC ADVISOR: ASSOC. PROF. CHOVPAN G.O. ....	33
<i>THE RESEARCH OF POSSIBILITY OF USING ANS IN MEDICINE</i> .....	33
MOHAMMED ZULFIKAR KHAN .....	34

CHERNIAKOVA ALEXANDRA EVGENIEVNA, PROKOPENKO MARYNA, POLIAKOV OLEKSII, BOROSHPOLCEV ALEKSANDR	155
<i>DAMAGES OF THE EXTERNAL NOSE</i>	155
FESENKO IRYNA	156
<i>LASER TREATMENT OF DIABETIC RETINOPATHY AND MACULAR EDEMA</i>	156
HOLUB M. V., NEVCHOROSHEV E.O., KUCHERENKO I.O.	158
<i>PECULIARITIES OF ANATOMO-TOPOGRAPHIC INDICATORS IN PHACOEMULSIFICATION OF CATARACTS</i>	158
HORDIENKO VOLODYMYR, VLASENKO OLGA, KHARCHENKO ELINA	159
<i>ACUTE HEMATOGENOUS OSTEOMYELITIS IN CHILDREN</i>	159
KURCHANOVA YULIIA, IVANTEIEVA YULIIA, SYRCHINA VALERIYA	161
<i>POSTSURGICAL ULTRASONIC MONITORING OF ILEOCOLIC ANASTOMOSIS</i>	161
KVITANOVA NATALIYA, ZABLODSKYI VALERII	162
<i>MODERN METHODS TREATMENT OF ACUTE APPENDICITIS IN PREGNANT</i>	162
LESNA ALINA, LESNOY VADIM	163
<i>MODERN METHODS FOR DIAGNOSTIC AND TREATMENT OF EXTERNAL UNCOMPLICATED HERNIA</i>	163
NAZAL ETHAR	165
<i>LIFE QUALITY ASSESMENT IN PATIENTS WITH DYSPHAGIA AFTER GASTROSTOMY</i>	165
ONOPRIKO YURII	166
<i>APPLICATION OF ENDOVASAL ELECTRIC WELDING IN THE TREATMENT OF VARICOSE DISEASE</i>	166
POLIKOV HEORHII	167
<i>CONCEPT OF USE OF TRANSHIATAL ESOPHAGECTOMY IN PATIENTS WITH DISEASES OF ESOPHAGUS</i>	167
TSYMBAL IRYNA, PYLYPENKO DARIA	169
<i>MODERN METHODS FOR THE DIAGNOSIS OF ACUTE APPENDICITIS IN PREGNANT</i>	169
YANIOHLO OLESIA, TRUSH OKSANA	170
<i>THE CHOICE OF OPTIMAL, SURGICAL ENDOVASCULAR TACTICS FOR LESIONS OF SUPERFICIAL FEMORAL ARTERIES</i>	170
ALEKSANDROVA KATERYNA, ZHURAVLIOVA POLINA	173
<i>ANALYSIS OF THE IMPACT OF HOLOTROPIC BREATHING TECHNIQUE ON THE QUICKNESS OF SENSOMOTOR REACTIONS AND THE SPEED OF ATTENTION'S SWITCH</i>	173
BAIKENITCH ARTUR	174
<i>MARIJUANA TREATS OR CRIPPLES?</i>	174
CHALA ANZHELA	177
<i>GADGET ADDICTION AMONG STUDENTS</i>	177
DAMILOLA OLUWATOSIN ABDUL-AZEEZ	178
<i>FEATURES OF FACTORS OF PSYCHO EMOTIONAL STRESS IN STUDENTS</i>	178
DOVHALIUK ANNA	179
<i>THE IMPACT OF DRAMATHERAPY IN WORKING WITH MILD MENTAL RETARDATION</i>	179
ELENA KIRSANOVA, KRYSHAL VALENTYN	181
<i>PECULIARITIES OF COMPLEX TREATMENT OF PATIENTS WITH SCHIZOPHRENIA</i>	181
HRYTSENKO ANASTASIIA	183
<i>THE INFLUENCE OF PETS ON THE PSYCHOLOGICAL AND SOCIAL STATUS OF CHILDREN IN PROBLEM FAMILIES</i>	183
ISTANESE MARTIN, SELVARATNAM ELISHA	184
<i>DIFFERENT APPROACHES TO UNDERSTANDING MANIC SYNDROME</i>	184
KATE PRONOZA-STEBLIUK	186
<i>USING OF NEW MODIFICATION OF METHAFORICAL ASSOCIATIVE CARDS IN THE MEDICAL- PSYCHOLOGICAL REHABILITATION OF UKRAINIAN VETERANS WITH POST-CONCUSSION SYNDROME</i>	186
KHILCHEVSKYI BOHDAN, BEREZHNYI HERMAN	187
<i>THE LEVEL OF ANXIETY AND THE PRESENCE OF STUDENT ADDICTIONS</i>	187
KHIMICH ANDRII	188
<i>THE EFFECT OF ANXIETY ON BRAIN ACTIVITY</i>	188
KOBYLYNSKA LIUDMYLA, DAVYDENKO KATERYNA	189
<i>ETIOPATHOGENETIC AND CLINICAL ASPECTS OF BLOCH-SULZBERNG SYNDROME</i>	189
KONDRATENKO ANASTASIIA	190
<i>THE IMPACT OF NON-DRUG TREATMENT TO MILD COGNITIVE IMPAIRMENT</i>	190
KONOVALOVA KATERYNA, DERKACH YULIIA, ARTEMENKO MARGARITA	191
<i>THE LEVEL OF DEPRESSION OF KNMU STUDENTS</i>	191
KOSENKO YULIA	192
<i>LEVEL OF PERSONAL ANXIETY AMONG ONES HAVING TENDENCY TO LOVE ADDICTION</i>	192
MOHAMMED NUMAN HYDER	194
<i>DOES SOCIAL MEDIA ROMANTICIZE MENTAL ILLNESSES</i>	194
OREL NADIYA, HOLOVNIYA HANNA, LIAKH ALINA	195
<i>LIFE QUALITY AND PECULIARITIES OF THE PSYCHO EMOTIONAL SPHERE IN POST-STROKE PATIENTS</i>	195