



**IMPROVING ANESTHETIC PROTECTION AND BLOOD PRESSURE
CONTROL IN SIMULTANEOUS ABDOMINAL AND PELVIC OPERATIONS
IN OBESE PATIENTS.**

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Annotation

The consideration of reliable means of anesthesia when performing one-stage operations on the abdominal and pelvic organs is one of the most important links in the treatment of surgical patients. Study of surgical stress severity, regional anesthesia method application, hypnotic component, influence of artificial lung ventilation, anesthesia in surgery, general anesthesia, and opioids on cognitive and psychomotor functions; provision of positive effect when epidural anesthesia is used in combination with general anesthesia.

Key words

anesthetics, sedativ component, surgical stress, complications, anesthesia, epidural analgesia.

Relevance of the work: Due to the increase in the life expectancy of the population, the adverse effects of environmental factors, and the increase in the rate of diagnosis, the incidence of joint surgery has increased in recent years. Recent studies have allowed us to find new patterns in the combination of diseases of various organs and systems that are pathogenetically interrelated and random. In 2021, the World Health Organization published statistics, according to which 25-30% of patients treated with surgery have one or more diseases. At the same time, despite the real opportunities to provide necessary medical care to this category of patients and to achieve maximum medical, social and economic results, only 1.5-6% of such patients undergo surgical interventions at the same time. The very small number of simultaneous operations is explained by various reasons: incomplete examination of patients in the preoperative period, intraoperative examination of the abdominal cavity and pelvic organs during the operation, confirmation of the level of operational risk when using the possibilities of simultaneous operations and incorrect result of surgery, surgery It is explained by the psychological unpreparedness of surgeons and anesthetists to expand the scope of intervention

The purpose of the work: to evaluate the effectiveness of anesthesiological approach in simultaneous operations of various abdominal and small pelvic organs.

Materials and examination methods: 80 surgical patients who underwent simultaneous abdominal surgery were studied for examination. Their age ranged from 35 to 72 years (average 54.6 +- 6.6): men - 35-43.75%, women - 45-56.25%. Patients were divided according to the nature of simultaneous surgery as follows: hernigastrectomy and cholecystectomy - 29 patients, liver echinococectomy and cholecystectomy - 16, hemiolaparotomy and cholecystectomy - 18 patients, hermiolaparotomy and hysterectomy - 17 patients. Patients in the main group (46 patients) underwent multicomponent general and epidural anesthesia (EA) in combination. Epidural puncture and catheterization were performed 30-40 minutes after standard premedication based on general rules. The area of puncture was selected taking into account the organs to be operated on. Local isobaric anesthetic longocaine (Ukraine) was used at the rate of 0.5%-1.5 mg/kg. Total intravenous anesthesia was performed on the background of O'SV for 34 patients in the control group. As a general anesthetic, ketamine 5-6 mg/kg /h, thiopental sodium 3-5 mg/kg/h, NLA drugs and myorelaxant arduan in doses of 0.04-0.06 mg/kg/h were used. In the initial period of oration and after that, together with general clinical and biochemical analyzes, ECG (Geolik EKZT - 12 - 01, Yaroniya). EXO - KG (ACCUVIX QX, Madison. Japan). AQB (systolic. diastolic, average), YUUS, spirometry (Spiro Com Standard, XAI - MEDIKA, Kharkiv, Ukraine) pulse oximetry (SpO₂) (MPR6 - 03 - "Triton" Russia) was examined. The effect of anesthesia was assessed by hemodynamic indicators, glycemia, and in the postoperative period using a visual-analog scale (VASH).

Table 1 The dynamics of the examined indicators in groups during the research stages

Checked indicators	Groups	Research stages				
		1-	2-	3-	4-	5-
Sis.b.p.	Main group N=46	134,8± 12,6	138,4± 11,5	126,2± 9,7	121,6± 8,2	122,1± 9,3
	Control group N=34	137,3± 15,2	141,6± 16,1	138,1± 17,3	148,1± 12,8	137,5± 11,9
Dias.b.p.	Main group N=46	82,2± 10,2	82,8± 8,1	76,8± 4,8	75,3± 5,8	76,3± 6,1
	Control group N=34	89,6± 11,2	82,4± 12,9	91,5± 11,3	89,1± 10,1	82,4± 9,6
Number of h.c.in a minute	Main group N=46	76,1± 5,7	98,5± 4,9*	79,3±8,2	77,8± 5,6	76,3± 5,1

	Control group N=34	72,9±8,1	98,8±10,1*	97,9±11,4*	91,6±8,7*	89,7±7,2	
Diuresis, average	Main group N=46	47,2 ± 2,7	58,4 ± 2,9	59,5 ± 2,8	58,9 ± 2,9		
	Control group N=34	48,2 ± 3,2	48,1 ± 3,5	49,3 ± 3,2	48,6 ± 3,3		
SpO2, %	Main group N=46	—	97,8±1,7	97,6±2,1	97,9±1,7	98,1±1,4	
	Control group N=34	—	96±3,8	95,6±3,4	96,8±2,1	96,6±2,3	

Note: p<0.05 is a reliable difference in study steps.

The risk of anesthesia and anesthesia of the patients was assessed according to ASA level II-III. It was observed that AQB decreased by 15-20%, YuUS increased by 5% after performing EA to the patients of the examined group. SpO2 remained between 96-98%. Due to the use of EA as a component of the anesthesiological manual, the consumption of fentanyl in the main group decreased by 8-10 times.

The average AQB was kept stable at all stages of the operation in this case. In a stable hemodynamic state, after the restoration of adequate independent breathing, earlier extubation was possible compared to the control group. Patients in the main group were given longocaine solution 0.5% - 5 ml (25 mg) every 6 - 8 hours through an epidural catheter as a post-oration analgesia. Discomfort in the postoperative period in 8 cases in the control group; obvious pain syndrome, abdominal pain, nausea were observed and required additional anesthesia. According to VASH, the level of analgesia was 0-1 points in the main group, and 3-4 points in the control group.

Conclusion: Combined anesthesia (UA+EA) during traumatic simultaneous operations of the abdominal cavity and small pelvic organs ensures a smooth intraoperative period, significantly reduces the consumption of narcotic analgesics and general anesthetics, and wakes up patient earlier. Postoperative epidural analgesia activated the patient earlier, activated breathing and bowel movements, reduced intensive care unit and intensive care unit days, which means cost-effectiveness.

LIST OF REFERENCES:

1. Анализ частоты критических инцидентов при плановых оперативных вмешательствах на органах брюшной / А.В. Щеголев, К.А. Цыганков, Р.Е. Лахин, С.В. Бокатюк // Вестник Российской военно-медицинской академии. – 2016. – № 1. – С. 29-32.



2. Бердикян, А.С. Интраоперационная гипотермия: причины, патогенетическое значение, профилактика / А.С. Бердикян, А.В. Марченко // Вестник интенсивной терапии. – 2002. – № 1. – С. 36-44.
3. Болотников, Д.В. Циркациональные изменения сверхмедленных физиологических процессов у человека: автореф. дис. ... канд. мед. наук: 03.00.13 / Болотников Дмитрий Вячеславович. – Краснодар: Кубанская гос. мед. академия, 2002. – 20 с.
4. Болотов, В.В. Гомеостатические детерминанты уровней бодрствования и их роль в прогнозировании послеоперационного периода: автореф. дис. ... канд. мед. наук: 14.00.37 / Болотов Виктор Васильевич. – Краснодар, 2000. – 21 с. 4
5. Брискин, Б.С. Влияние полиморбидности на диагностику и исход в абдоминальной хирургии у пожилых / Б.С. Брискин, О.В. Ломидзе // Клиническая геронтология. – 2008. – № 4. – С. 30-33.
6. Бунятян, А. А. Анестезиология: национальное руководство / А. А. Бунятян, В. М. Мизиков. – М. : ГЭОТАР-Медиа, 2013. – С. 112-113. 24. Корячкин, В. А. Нейроаксиальные блокады / В. А. Корячкин. – СПб. : Элби-СПб, 2013. – 544 с.
7. Бунятян, А.А. Проблема безопасности больных в анестезиологии / А.А. Бунятян, Е.В. Флеров, И.И. Шитиков // Материалы 4-го Всероссийского съезда анестезиологов-реаниматологов. – 1994. – С. 39.
8. Гольбрайх, С.С. Маскин, В.В. Матюхин, И.Н. Климович, А.Г. Арутюнян. СОВРЕМЕННЫЕ ПОДХОДЫ К СИМУЛЬТАННЫМ ОПЕРАЦИЯМ (ПОКАЗАНИЯ, АЛГОРИТМЫ ВЫПОЛНЕНИЯ, ОСЛОЖНЕНИЯ) // Хирургия. Журнал им. Вестник ВлгГМУ. – 2021. – № 2 (78). – С. 28-36
9. Вентиляция легких в анестезиологии и интенсивной терапии / В.Л. Кассиль, М.А. Выжигина, А.А. Еременко, Ю.Ю. Сапичева. – М.: ГЭОТАР-Медиа, 2016. -728 с.
10. Верткина Н.В., Хамитов Ф.Ф., Лисицкий Д.А. и др. Клинико-экономические аспекты симультанных операций у больных пожилого и старческого возраста // Клиническая геронтология. – 2008. – № 4 (14). – С. 5-10
11. Матлубов М.М., Семенихин А.А., Хамдамова Э.Г. Выбор оптимальной анестезиологической тактики при кесаревом сечении у пациенток с ожирением // Вестник анестезиологии и реаниматологии. 2017. №5. URL: <https://cyberleninka.ru/article/n/vybor-optimalnoy-anesteziologicheskoy-taktiki-pri-kesarevom-sechenii-u-patsientok-s-ozhireniem> (дата обращения: 03.05.2022).



12. Матлубов Мансур Муратович, Нематуллоев Тухтасин Комильжонович, Хамдамова Элеонора Гаффаровна, Ким Ольга Витальевна, Хамраев Хамза Хамидуллаевич Оптимизация анестезиологического подхода при колопроктологических операциях у больных с сопутствующим сердечно-сосудистым заболеванием (обзор литературы) // Достижения науки и образования. 2019. №12 (53). URL: <https://cyberleninka.ru/article/n/optimizatsiya-anesteziologicheskogo-podkhoda-pri-koloproktologicheskikh-operatsiyah-u-bolnyh-s-soputstvuyuschim-serdechno-sosudistym> (дата обращения: 03.05.2022).
13. Курбонов Н. З., Пардаев Ш. К., Матлубов М. М. ОПТИМИЗАЦИЯ АНЕСТЕЗИОЛОГИЧЕСКОГО ПОСОБИЯ ПРИ СИМУЛЬТАННЫХ ОПЕРАЦИЯХ НА ОРГАНАХ БРЮШНОЙ ПОЛОСТИ //Uzbek Scholar Journal. - 2022. - Т. 10. - С. 52-56.
14. Zayniddinovich, K. N., & Kuilievich, P. S. (2023). OPTIMIZATION OF ANESTHETIC SUPPORT DURING SIMULTANEOUS OPERATIONS ON THE ABDOMINAL AND PELVIC ORGANS. BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI, 3(1), 331-334.
15. Zayniddinovich, K. N., & Kuilievich, P. S. (2023). Improving the efficiency of anesthetic access during simultaneous abdominal and pelvic surgeries in patients with concomitant arterial hypertension. IQRO, 3(1), 12-15.
16. Zayniddinovich, K. N., & Kuilievich, P. S. (2023). STABILIZATION OF ANESTHETIC SUPPORT DURING SIMULTANEOUS ABDOMINAL AND PELVIC OPERATIONS. IJTIMOIY FANLARDA INNOVASIYA ONLAYN ILMIY JURNALI, 3(6), 122-124.
17. Kurbanov, N. Z., & Sharipov, I. L. (2023). IMPROVEMENT OF ANESTHETIC PROTECTION IN SIMULTANEOUS OPERATIONS ON ABDOMINAL AND PELVIC ORGANS. World scientific research journal, 20(1), 113-116.
18. Sharipov, I. L., Xolbekov, B. K., & Kurbonov, N. Z. (2023). BOLALAR OFTALMOLOJARROHLIGIDA ANESTEZYANI TAKOMILLASHTIRISH. World scientific research journal, 20(1), 107-112.
19. Курбонов, Н. З. (2022). ОПТИМИЗАЦИЯ АНЕСТЕЗИОЛОГИЧЕСКОГО ДОСТУПА ПРИ ХИРУРГИИ РЕЦИДИВА ВЕНТРАЛЬНОЙ ГРЫЖИ У ПАЦИЕНТОВ С ОЖИРЕНИЕМ И АРТЕРИАЛЬНОЙ ГИПЕРТЕНЗИЕЙ. ІJODKOR O'QITUVCHI, 2(24), 431-439.
20. Zayniddinovich, K. N., Qo'yiliyevich, P. S., & Muratovich, M. M. (2022). OPTIMIZATION OF ANESTHESIOLOGICAL APPROACH IN RECURRENT ABDOMINAL HERNIA SURGERY IN PATIENTS WITH THIRD-DEGREE OBESITY. Journal of new century innovations, 18(1), 188-194.