

BOOK of ABSTRACTS *LIVER*

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- Prognostic determinants in patients with multiple colorectal liver metastases: the relevance of the primary tumor features
- Prognostic role of KRAS mutational status and response to preoperative chemotherapy in patients undergoing hepatectomy for colorectal liver metastases
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- Randomized Clinical Trial of Abdominal Wound Catheters (AWC) versus Epidural Analgesia (EP) following Open Liver Resection (OLR): An Interim Analysis
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- Recurrent Biliary Cystadenoma
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- Reporting of risk of bias at trial registration
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- Resection of benign liver tumours: an analysis of 62 consecutive cases treated in an academic referral centre
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 - Description of an experimental model of two-stage hepatectomy in different extents of cholestasis
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 - Electrochemotherapy: new treatment approach for Hepatocellular Carcinoma: Results of phase I study
 - Evaluation of an augmented reality based image guidance system for laparoscopic liver surgery
 - Exercise improves outcomes of surgery on fatty liver and can be substituted through AMPK activation - an experimental study
 - First long-term follow-up study of near-infrared fluorescence-guided resection of colorectal liver metastases
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Liver surgery: Clinical
P49.06**Indices of lipid peroxidation and antioxidant protection after using argon plasma coagulation and monopolar cautery in patients with liver hemangiomas**

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Background

Maximum preservation of functioning parenchyma is one of the most important areas of surgery of the liver hemangiomas. The aim was to investigate the indices of lipid peroxidation and antioxidant protection in patients who underwent operative treatment.

Methods

Laparoscopic surgeries using argon plasma coagulation (APC) were performed in 25, and using monopolar cautery (MPC) – in 21 patients. In the pre– postoperative periods we assessed levels of malondialdehyde (MDA), ceruloplasmin (CP), transferrin (TF), CP/TF.

Results

Using of MPC was accompanied by a pronounced positive dynamics of the studied indices – the content of MDA decreased in comparison with that before treatment by 27.5%, the content of CP increased by 66.4%, and the content of TF practically unchanged and remained lower than normal. Coefficient of CP/TF increased in comparison with its value before treatment by 64.6%.

Under the influence of using APC, MDA level decreased by 34.8% in comparison with that before treatment. The content of CP and TF increased respectively by 77.4 and 24.8%, the index of CP/TF also increased by 40.4%. Besides, the level of TF was higher than that in the group of patients who underwent MPC by 26.8%. It should be noted that all the studied indices did not differ from normal.

Conclusion

Under the condition of liver hemangiomas resection using APC in comparison with MPC we can see the improvement of laboratory indices of lipid peroxidation and antioxidant protection.