

Laparoscopic cholecystectomy: Evaluation of liver function tests

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Background & Aim: The changes in liver function tests (LFTs) after laparoscopic cholecystectomy (LC) have been described in the literature. The aim of this study is to evaluate clinical relevance of LFTs changes.

Patients & Methods: In the period September 2011 – February 2012, 81 patients undergoing elective LC were analyzed by examining bilirubin, AST, ALT, ALT, G-GT at the admission, one and 6 days after surgery. Correlations of the length of intervention and BMI with changes of LFTs were evaluated. During surgery, the intrabdominal pressure has been 12 mmHg in all patients. The Student t test, PCC (Pearson's r) OR (odd ratio) were performed to determine statistical significance.

Results: The level of (serum) AST, ALT increased significantly during 24-48 hours after LC ($p < 0.0001$). The increase of (total and direct) bilirubin has not the statistical significance. On the contrary ALT, G-GT was significantly decreased ($p < 0.001$). Six days after surgery LFTs returned to normal level. The length of intervention doesn't show correlations with changes of LFTs (PCC 0.2). the BMI > 28 led increased risk of changes of LFTs (OR 2.44).

Conclusions: The changes of LFTs are transient and clinically silent in patients with a normal liver function. Nevertheless must be evaluated preoperative BMI and liver dysfunction.

Biography

Vincenzo Neri was born in Bari, Italy, on 15th March, 1946. He graduated in 1970 in Medicine and Surgery from the University of Bari. He is a fulltime Professor of General Surgery in the Medical School of the University of Foggia, Polyclinic. He is the Director of the Residency School of General Surgery and Department of General Surgery. He was President of the Course of Degree of Medicine and Surgery, University of Foggia, in the years from 1996 to 2002. He was Director of Department of Surgical Sciences, University of Foggia in the years from 2002 to 2008. He obtained the certificate of "Maitrise Universitaire en Pedagogie des Sciences de la Santé" from the Université Paris – Nord Bobigny. He is the author of more than 330 scientific paper edited on national and international journals and chapters of books. His research interest is hepatobiliopancreatic surgery. He is a member of scientific societies : SIC, IHPBA, AISP, EASL, NESA and SLS.

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