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CHANGES IN THE GALLBLADDER STORAGE FUNCTION IN PATIENTS WITH ASYMPTOMATIC CHOLECYSTOLITHIASIS AFTER ORGAN-SPARING SURGERY - LAPAROSCOPIC CHOLECYSTOLITHOTOMY

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Sonographic evaluation of gallbladder storage function in patients with asymptomatic cholecystolithiasis can improve the indications for laparoscopic cholecystolithotomy and surgical outcomes by predicting the probable recovery of gallbladder function and reducing the number of cholecystolithiasis recurrences.

The aim of the study was to examine changes in the gallbladder storage function in patients with asymptomatic cholecystolithiasis before and after laparoscopic cholecystolithotomy.

Material and methods. The study involved 33 patients with asymptomatic cholecystolithiasis. There were 82% (n = 27) of females, aged 23 to 54 years, mean age 48 ± 11.9 years, and 18% (n = 6) were males, aged 25 to 58 years, mean age 46.2 ± 12.4 years. All the patients underwent abdominal ultrasound examination using Philips A MA2540R devices before and after laparoscopic cholecystolithotomy. The measurements were focused on the gallbladder size, the number and size of gallstones, as well as its storage function and the "latent" period duration. The data were statistically analyzed using the STATISTICA 6.0 software package.

Results. The parameters of gallbladder storage function did not differ significantly before and after laparoscopic cholecystolithotomy. The "latent period" was significantly reduced from 15.6 ± 2.5 min to 8.3 ± 1.7 min ($p = 0.001$).

Conclusion. Laparoscopic cholecystolithotomy with sonographic indications in patients with asymptomatic cholecystolithiasis allows maintaining the storage function of preserved gallbladder after surgery.

Key words: asymptomatic cholecystolithiasis, gallbladder storage function, laparoscopic cholecystolithotomy