

Laparoscopic Management of Cysts Mimicking Hepatic Cystic Echinococcosis in Children (A Case Series)

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Abstract : Introduction: Laparoscopic treatment of liver echinococcosis cyst has become popular. In parallel, the diagnostic approach of cystic liver lesions is based on the number of lesions and their distribution. The etiologies of cystic masses in children are different, and the role of imaging in their characterization and pre-therapeutic evaluation is essential. The main differential diagnoses of hepatic hydatid cysts can be discovered intraoperatively by minimally invasive surgery. Methods: The clinical data contained seven patients with hepatic cystic who underwent laparoscopic surgery in the Department of Pediatric Surgery, SETIF, Algeria, from 2015 to 2022. Results: Of reported seven patients, five are male, and the remaining two are female. Abdominal pain was the most frequent clinical signs. Biological parameters were within normal limits, Abdominal ultrasound, practiced in all cases, completed by abdominal computed tomography (CT), showed a hydatid cystic. For all patients, surgical procedures were performed under laparoscopy. Total cystectomy in four patients, fenestration or subtotal cystectomy in three patients, respectively. A histopathological feature confirmed the nature of the cysts. During the follow-up period, there was no recurrence. Conclusions: Laparoscopic liver surgery is a safe and effective approach, it is an alternative to conventional surgery and a reproducible method. Laparoscopic surgery approach should follow the same principals with those of open surgery. This surgical technique can rectify the diagnosis of hydatid cyst, the histopathological examination confirms the nature of the cystic lesion.

Keywords : children, cyst, echinococcosis, laparoscopic, liver

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