The ultrasonographic "common channel" sign: a characteristic feature of malignant obstruction of the lower end of common bile duct

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Date: 1989

Abstract

We describe an ultrasonographic "common channel" sign as the characteristic sonographic feature of malignant distal common bile duct (CBD) obstruction. Of 24 patients with obstructive jaundice due to distal CBD obstruction (pancreatic carcinoma 8, periampullary cancer 5, choledocholethiasis 10, CBD stricture due to pancreatitis 1) in whom the final diagnosis was proven at laparotomy, ultrasonography revealed 11 patients to have a thin-walled distended gallbladder continuous with a dilated CBD, which was termed the "common channel" sign. In all 11 patients, the cause of obstruction of the lower end of CBD proved to be malignant (pancreatic carcinoma 6, periampullary 5). In contrast, only 2 of the other 13 patients with obstructive jaundice with distal CBD obstruction, but without the "common channel" sign, had a malignant lesion at the lower end of CBD. The positive and the negative predictive values of the common channel sign is a reliable and characteristic feature of distal CBD obstruction due to malignant pathology.