Scientific letter

Perforated Hemorrhagic Cholecystitis

Colecistitis hemorrágica perforada

Hemorrhagic cholecystitis is an uncommon, acute, serious complication of acute cholecystitis that may or may not be associated with lithiasis. Due to inflammatory changes, the hemorrhage causes ulceration of the mucosa and necrosis, distends the gallbladder and finally leads to its rupture and haemoperitoneum. The most frequent site of the perforation is the fundus of the gallbladder due to poor vascular irrigation.1

We present the case of a 59-year-old male patient who was allergic to ampicillin, was an ex-smoker, and had alcoholic cirrhosis. He came to the emergency room (ER) due to colicky abdominal pain in the right hypochondrium and jaundice that had been progressing for several days and was increasing. The ER work-up showed: total bilirubin 5.20 mg/dL, glutamic-pyruvic transaminase (GPT) 69.00 U/L, glutamate-exaloacetate-transaminase (GOT) 114 U/L, gamma-glutamyl-transferase (GGT) 1294 U/L and prothrombin activity 65%. In the ER, the patient presented symptoms of shock with arterial hypotension (70/30 mmHg), abdominal distension and signs of peritonism that required the intervention of the intensive care unit, with emergency intubation and haemodynamic stabilisation with vasoactive drugs. Abdominal CT scan reported “Perisplenic and perihepatic hyperdense fluid, and a very distended gallbladder with hyperdense material in its interior associated with choledolithiasis. Compatible with haemocholecystitis open to the peritoneum and active extravasation of contrast” (Figs. 1 and 2).

Given the abdominal CT scan findings and the situation of shock of the patient, emergency surgery was indicated.

Urgent midline exploratory laparotomy detected massive haemoperitoneum with a perforated gallbladder and capillary bleeding in its interior, as well as macronodular cirrhosis, without any other identified bleeding point. Cholecystectomy was performed. The patient’s condition progressed favourably during hospitalisation, and he was discharged on the ninth day post-op, without incident.

The pathology study reported hemorrhagic cholecystitis.

Hemorrhagic cholecystitis is a rare emergency associated with high mortality. Most perforations of the gallbladder occur in lithiasic cholecystitis (3%–10%)1 and are much less frequent in alithiasic types.2 Atherosclerotic changes in the gallbladder wall represent the most common predisposing factor.3

Perforation of the gallbladder can be seen as an acute process with the leakage of bile to the peritoneal cavity (type I), subacute symptoms that cause a gallbladder abscess (type II), or a chronic process with the formation of a cholecystoenteric or cholecystocutaneous fistula (type III).4

Involved in the aetiology are gallstones (50% of cases), anticoagulation,5 antiaggregation or coagulopathies, gallbladder cancer, trauma, portal hypertension, corticosteroid therapy, blood dyscrasia, ectopic gastric or pancreatic mucosa and parasites.6

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Fig. 1 – Abdominal CT scan: hyperdense perihepatic fluid; distended gallbladder and active extravasation of contrast material in its interior.
Conflict of Interests

The authors have no conflict of interests to declare.

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