the irregular thickening of the duodenal wall and the presence of cysts of varying sizes in the interior of the thickened wall. The cystic lesions, located in the submucosa or muscle itself, are outlined by cuboidal epithelial cells. Meanwhile, in the underlying ectopic pancreatic tissue, fibrosis is observed along with chronic inflammatory changes similar to those described in chronic pancreatitis. It may be asymptomatic, but on most occasions the symptoms are abdominal pain with associated vomiting. In this case, there was also a neuroendocrine tumor, an association that has been described by other authors. Treatment is controversial and options include medical treatment with transitory results using somatostatin analogs and parenteral nutrition, endoscopic fenestration of the cysts when they are few and superficial (which is not usual) and surgery. Surgical treatment is usually the best option for the definitive treatment of the symptoms, including pancreaticoduodenectomy, gastric bypass or duodenal resections with pancreatic preservation. Pancreaticoduodenectomy is the classically used procedure and should be considered when, despite different diagnostic techniques, the nature of the tumor continues to be uncertain.

REFERENCES


Montiel Jiménez-Fuertes*, David Costa-Navarro
Servicio de Cirugía General y Digestiva, Hospital Marina Baixa, Villajoyosa, Alicante, Spain

*Corresponding author.
E-mail address: montieljf@hotmail.com (M. Jiménez-Fuertes).
2173-5077/$ – see front matter © 2013 AEC. Published by Elsevier España, S.L.U. All rights reserved.

Ruptured Liver Caused by Peliosis Hepatis

Rotura hepática secundaria a peliosis hepática

Peliosis hepatis (PH) is an uncommon condition characterized by the presence of multiple cavities or blood-filled pseudocysts with varying morphology and size. Its clinical presentation ranges from the absence of symptoms to serious complications (hepatic failure, portal hypertension, cholestasis, and intraperitoneal hemorrhage due to liver rupture). We do not know the exact incidence of liver rupture secondary to PH, but in the literature only 20 cases have been published. We present a case of hemoperitoneum due to spontaneous liver rupture secondary to PH.

We present the case of a 52-year-old woman who came to our Emergency Department due to sudden-onset abdominal pain in the epigastrium 4h before. Her personal history included COPD and treatment with oral contraception. Physical examination showed peritoneal irritation in the epigastric area. Lab work revealed leukocytosis with neutrophilia, hemoglobin 12.8 g/dl, normal coagulation times and a pattern of cholestasis. Abdominal CT scan (Fig. 1) demonstrated a round mass that occupied practically the entire left lateral section of the liver that was predominantly subcapsular and approximately 10 cm in diameter, with hypo- and isodense areas, poorly defined, with inner vascular structures and areas of probable bleeding. Abundant free abdominal fluid was observed, which was predominantly perihaptic. Given these findings, an urgent laparotomy was performed. The intraoperative findings included: hemoperitoneum of 2 L secondary to a ruptured subcapsular hepatic mass located in segments II–III. A left lateral segmentectomy was performed.

spontaneous regression of the disease after the suppression of steroids or after treatment of the associated infectious disease.\textsuperscript{5,6}

The exact pathogenesis of \textsuperscript{PH} is unknown. It is characterized by the presentation of cystic spaces full of blood that can be between a few millimeters and several centimeters in size, with no preferred intrahepatic location. Yanoff et al. described 2 morphologic \textsuperscript{PH} patterns: parenchymal and phlebectatic.\textsuperscript{7} In the parenchymal form, the blood-filled space is outlined by hepatocytes and is associated with hemorrhagic necrosis of the parenchyma. In the phlebectatic type, the blood-filled space is outlined by endothelium, with aneurysmal dilatation of the central vessel. However, other authors postulate that there is only one morphologic \textsuperscript{PH} pattern that initiates with focal necrosis of the parenchyma, transforming into a hemorrhagic area (parenchymal pattern) that can progress toward fibrosis and an endothelial covering (phlebectatic pattern) or toward healing with the formation of fibrin, thrombosis, and sclerosis of vascular spaces.\textsuperscript{8}

The clinical presentation is variable and may be asymptomatic with focal liver lesions diagnosed as a finding on radiological testing. Or, it may debut as hepatomegaly or liver dysfunction and, less frequently, it can present complications such as liver failure, cholestasis, portal hypertension or hemoperitoneum secondary to spontaneous rupture. The natural evolution of \textsuperscript{PH} is unknown; the lesions may resolve spontaneously or lead to serious complications.\textsuperscript{9}

Computed tomography with contrast demonstrated the \textsuperscript{PH} lesions as heterogenous and hypodense areas compared with the normal parenchyma. In the arterial phase, there may be non-perfused areas with vasodilation and large lesions that present a center with contrast uptake. In the portal phase, they present centrifugal progression with accumulation of the contrast in these areas in the late phase, becoming isodense as the evaluation progresses. These lesions do not exert a mass effect, which differentiates them from metastatic or tumor lesions. Subcapsular hematomas may also be observed in different stages of evolution and, in those cases with active bleeding, extravasation of the contrast may be seen.\textsuperscript{5} The differential diagnosis should be done mainly with adenoma, hemangioma, nodular hyperplasia, and hypervascular metastases.\textsuperscript{5}

On MRI, multiple foci have been documented with increased signal in the \textsuperscript{T2}-weighted sequences and a variable signal in the \textsuperscript{T1} sequences, which presumably reflect different stages of the hemorrhage. It is also possible for the MRI to be normal in cases of uncomplicated peliosis.\textsuperscript{10}

The treatment of \textsuperscript{PH} varies depending on the triggering cause. Regression of the disease has been described after the related drug use has stopped or after the treatment of associated diseases.\textsuperscript{2,8} Our case could be associated with the prolonged use of oral contraceptives. In those cases in which \textsuperscript{PH} presents with complications such as intraabdominal bleeding, the treatment is liver resection. Early diagnosis of \textsuperscript{PH} and the appropriate etiologic treatment can avoid possible complications.

In conclusion, PH is a rare condition that should be considered in the differential diagnosis of liver lesions and in the acute presentation of intraabdominal hemorrhage.
Rupture of Descending Thoracic Aorta due to Angiosarcoma☆
Rotura de aorta torácica descendente afectada por un angiosarcoma

Malignant tumors of the aorta are extremely rare. In most cases, the diagnosis is established when the disease is already advanced, and survival is usually only a few months.1,2 We present the case of a patient with angiosarcoma of the aorta that initiated as a ruptured pseudoaneurysm and was diagnosed after surgery for gastrointestinal bleeding caused by duodenal infiltration.

The patient was a 49-year-old male who was hospitalized for progressive abdominal pain accompanied by nausea, constipation and a weight loss of >15% over the course of the previous 2 months. Endoscopic study of the patient was normal. Abdominal CT scan identified an aortic pseudoaneurysm with a contained rupture 4 cm from the origin of the superior mesenteric artery, adjacent to the first duodenal branch, measuring 9 mm × 8 mm in diameter, and an aneurysm neck measuring 4 mm (Fig. 1). We decided to implant an aortic prosthesis (31 mm × 15 cm). The distal end was situated 1 cm from the celiac trunk and was sealed with a tri-lobe balloon catheter (Fig. 2).

The patient was discharged from the hospital after one week but was re-admitted 10 days later due to an episode of upper gastrointestinal bleeding. Upper GI endoscopy revealed bleeding at the duodenal level that could not be sclerosed. We therefore ordered thoracic and abdominal CT studies with contrast, which showed a hematoma in the duodenal region with signs of active bleeding. The gastroduodenal artery was embolized. Due to persistent gastrointestinal bleeding, we decided to perform exploratory laparotomy, where we observed bleeding in the 1st and 2nd portions of the duodenum. Subtotal gastrectomy was performed and samples were sent for pathology studies. The duodenum was packed with gauze, which was removed 72 h later. The results of the pathology report showed that the small intestine wall was infiltrated by a poorly differentiated malignant neoplasm compatible with high-grade angiosarcoma of large blood vessels, probably originating in the aorta. Once week later, the patient continued to become more anemic due to gastrointestinal hemorrhage and blood loss through the drain tubes, resulting in his death.

Angiosarcoma of the aorta is a very rare entity that is difficult to diagnose preoperatively. Furthermore, even if complete resection is performed, long-term survival is improbable.3

Please cite this article as: Santana-Cabrera L, Jaimes-Vivas RJ, Galante Miliqua M, Lorenzo Torrent R, Sánchez-Palacios M. Rotura de aorta torácica descendente afectada por un angiosarcoma. Cir Esp. 2014;92:501–503.

REFERENCES


Pilar Veguillas Redondo*, Jose Manuel Ramia Angel, Andree Kuhnhart Barrantes, Jose María Cobos Mateos, Jorge Garcia-Parreño

Unidad de Cirugía Hepatobiliarpancreática, Servicio de Cirugía General y Aparato Digestivo, Hospital Universitario de Guadalajara, Guadalajara, Spain

*Corresponding author.
E-mail address: pilarveguillas@hotmail.com (P. Veguillas Redondo).

2173-5077/3 – see front matter © 2012 AEC. Published by Elsevier España, S.L.U. All rights reserved.