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International Journal of Surgery Case Reports

journal homepage: www.casereports.com

A case of intra-abdominal hemorrhage secondary to peliosis hepatis

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ARTICLE INFO

Article history:

Received 17 June 2014

Received in revised form

19 December 2014

Accepted 20 December 2014

Available online 30 December 2014

Keywords:

Intra-abdominal hemorrhage

Peliosis hepatis

Acute abdomen

Hepatic disease

ABSTRACT

INTRODUCTION: peliosis hepatis (PH) is a rare vascular condition of the liver characterized by the presence of cystic blood filled cavities distributed randomly throughout the liver parenchyma Tsokos and co-workers [1–6]. Peliosis is most commonly found in the liver but can also involve the spleen, bone marrow, lungs, and abdominal lymph nodes Tsokos and Erbersdobler [1].

PRESENTATION OF CASE: We report a case of peliosis hepatis diagnosed post laparotomy. She required a re-look laparotomy with removal of packs peritoneal lavage, placement of intraseed and subhepatic drain. The patient was discharged after an 11-day recovery period.

CONCLUSION: We examine the literature and subsequently discuss the etiology and management of peliosis. Peliosis is a rare vascular condition of the liver characterized by the presence of cystic blood filled cavities. Causes are associated with a number of conditions, however, etiology is largely unknown. Management is overwhelmingly conservative except in a handful of cases.

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1. Introduction

Peliosis hepatis (PH) is a rare vascular condition of the liver characterized by the presence of cystic blood filled cavities distributed randomly throughout the liver parenchyma [1]. Peliosis is most commonly found in the liver but can also involve the spleen, bone marrow, lungs, and abdominal lymph nodes [1–6]. We report a case of Peliosis Hepatitis diagnosed post laparotomy.

2. Case report

A 58-year-old woman was transferred to Doctor's Hospital of Nassau, Bahamas. The Patient presented in the Turks and Caicos and stated that two days prior she began having sharp, aching abdominal pain, non radiating, aggravated by palpation and sitting up; alleviated when walking/standing and associated with vomiting, diarrhea, abdominal distention and weakness. She is noted to have a long history of heavy alcohol consumption and oral contraceptive use. She sought medical attention and was admitted to hospital

where she was found to have an acute abdomen. Her pregnancy test at this time was negative. After a brief period of resuscitation she subsequently had a laparotomy. A large hepatic lesion was seen and approximately 2 l of dark blood was removed from the abdominal cavity. Peri-hepatic packing was performed and the abdomen closed. She was later airlifted to our institution. When she presented to Doctor's Hospital, she was noted to be tachycardic and in hypovolemic shock. A diagnosis of intra-abdominal hemorrhage secondary to a hemorrhagic hepatic lesion post laparotomy and abdominal packing was made. We optimized the patient and performed a re-look laparotomy, removal of packs, peritoneal lavage, placement of intraseed and sub-hepatic drain. We found a large right subscapular hematoma, six abdominal packs in situ, 400 cc blood but no palpable or visible lesion in the left lobe of the liver.

Her post operative period was uneventful until day 3 when her course was complicated by a right pleural effusion which required tube thoracostomy and hypokalemia which was corrected. During that time she had a CT scan, which confirmed the diagnosis peliosis hepatis. She also received psychiatric consultation to aid in cessation of alcohol consumption. The rest of her course was uneventful. The patient was discharged on day 11 postoperative.

3. Examination technique

High-resolution axial MDCT images are obtained from the level of the domes of diaphragm to the level of symphysis pubis after IV

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non ionic contrast (Ultravist 370) injection; in a 64 slice CT scanner (Philips Brilliance).

Plain (non contrast) and arterial phase (30 s) scans for the liver; a portal venous phase (70 s) of the whole abdomen and a delayed scan (300 s, hepatic equilibrium phase) for the liver are performed.

4. Findings

There is evidence of a massive non enhancing hyperdense sub-capsular hematoma measuring about 21 × 16 × 6 cm s in relation to the entire right hepatic lobe (Figs. 1 and 2-marked with an asterisk on all images).

It is further capped by numerous complex densities with mottled air foci and hyperdense curvilinear bands, suggesting surgical packing (Fig. 2-marked with an up arrowhead).

There is an irregular (non mass like) abnormal parenchymal enhancement in the left hepatic lobar segment 4a (Fig. 1-white arrows on images), measuring approx 8 × 6 × 4 cm s in size, this region is not encapsulated, shows no calcification or air foci. On the plain scan it is hypodense to the remainder of the liver with progressive contrast pooling and poor wash out leading to hyperdense appearance in the portal venous and delayed phase scans. It has several sinuous irregular branching hypodensities within it in the arterial and portal venous phases. The distinct lack of mass effect on the adjacent portal and hepatic venous radicles is also noted (Figs. 1 and 2).

Above features suggest peliosis hepatitis (possibly related to use of OCs) in the left lobar segment 4a, and its rupture leading to a large right subcapsular hematoma. Moderate abdominal ascites and hemoperitoneum with frank pneumoperitoneum are noted, post laprotomy status. Bilateral small pleural effusions are identified. Liver shows no suggestion of cirrhosis. Biliary radicals are not dilated. Porta hepatis is normal. Gall bladder is well distended. Kidneys, spleen, pancreas, and both adrenal glands are normal. Gastrointestinal tract is grossly unremarkable, though the right half of the colon is displaced by the large hepatic pathology.

5. Discussion

Peliosis is a pathological condition of the mononuclear phagocytic system (reticuloendothelial system) [1,6]. The term peliosis originates from the Greek “pelios”, which means blue/black or discolored extravasated blood [2,12]. It is characterized by cystic blood filled cavities of the parenchymatous organs from the mononuclear phagocytic system [3,4]. Microscopically, there are two morphologic patterns of peliosis, as originally described by Yanoff and Rawson: the phlebectatic pattern, which is characterized by regular centrilobular blood-filled spaces that communicate with the sinusoids and are lined with the endothelium and/or fibrosis [5]. Secondly, the parenchymal pattern, characterized by irregular blood-filled spaces that are not by endothelium [5].

Although an exact etiology and pathophysiology of peliosis hepatitis has yet to be discovered, there are many conditions associated with PH. It has been associated with certain drugs [5,13,14] (2-chloro-3'-deoxyadenosine, 6-mercaptopurine, 6-thioguanine, androgenic-anabolic steroids, arsenic, azathioprine, cadmium, contraceptive steroids, danazol, glucocorticoids, tamoxifen, thorium dioxide, urethane, vinyl chloride, vitamin A toxicity); infections [16–19,21] (Bacterial endocarditis *Bartonella*, HIV, leprosy, Pyelonephritis, Syphilis, Tuberculosis); hematologic conditions [16–19,21] (Agnogenic myeloid metaplasia, Anaplastic anemia, Castleman's disease, Fanconi disease, Hodgkin disease, Lymphoma, Malignant histiocytosis, Multiple myeloma, Waldenstrom macroglobulemia); malignancies [7,16–19,21] (Colorectal adenocarcinoma, gastric adenocarcinoma, hepatocellular carcinoma, pancreatic cancer, prostate cancer, renal cell carcinoma, seminoma); Others (Cardiac transplantation, Chronic hemodialysis, Chron's disease, Diabetes mellitus, Idiopathic restrictive cardiomyopathy, Liver transplant, Marasmus, Pregnancy, Renal transplantation, Rheumatoid arthritis, Systemic lupus erythematosus, Alcoholism) [7,16–21].

It has been hypothesized that peliosis hepatitis is the result of loss of the integrity of the microvasculature of the liver either to congenital malformation of vessels or microcirculatory disturbances manifesting under alerted local intravascular pressure conditions

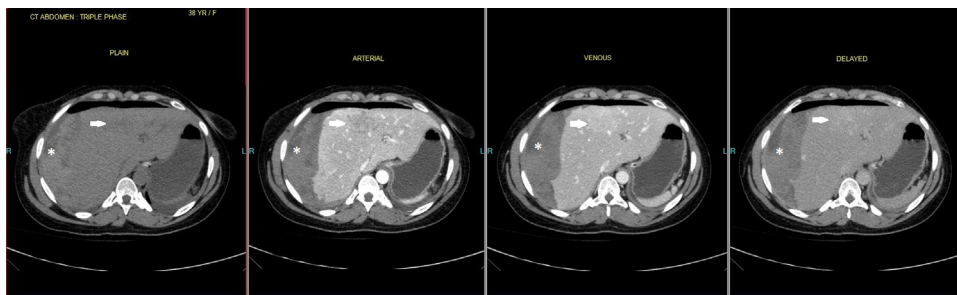


Fig. 1. CT scan abdomen post laparotomy.

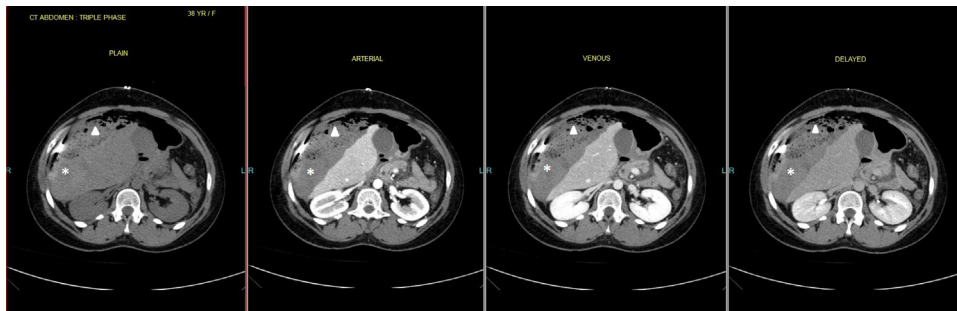


Fig. 2. CT scan abdomen showing large sub-capsular hematoma.

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