Dear Editor

Biliary hamartomata are rare benign lesions that were first described in 1918 by von Meyenburg [1]. Typically, these biliary malformations form cystic structures of various sizes within an array of architectural distortion [1,2]. These lesions have been shown to mimic malignant tumors, making them difficult to diagnose [1-3].

Herein, we report on a 48 year old gentleman with a history of end-stage liver disease secondary to alcoholic liver disease with signs of decompensation manifested by massive ascites requiring multiple bouts of large volume paracentesis, and hepatic hydrothorax requiring thoracostomy. The patient also had an upper endoscopy which showed a diffuse portal hypertensive gastropathy. He was listed for liver transplantation with MELD of 15. He eventually received an orthotopic liver transplant with piggyback technique. The donor was 49 year old female with history of hypertension who became brain death secondary to anoxia encephalopathy due to massive pulmonary embolism and cardiac arrest. AST and ALT were initially 111 and 121 (µL) but rose to mid 400 before recovery. At the time of recovery, there were multiple lesions in the liver measuring 7 to 10 mm (Figure 1). Pathology revealed multiple biliary hamartomata (von Meyenburg complex). His postoperative course was uncomplicated and he was discharged home 10 days after the transplant. He had an episode of raise in transaminases and was diagnosed with acute cellular rejection on biopsy. He responded well to steroid pulse. Currently, the patient is doing very well 2 years after liver transplantation.

Biliary hamartomata are rare benign tumors of the liver that exhibit abnormal histological features, such as ductules that contain a single layer of cuboidal epithelium surrounded by a fibrous stroma. The pathogenesis of these lesions is the result of arrested development and remodeling of the small, peripheral intrahepatic biliary ducts [2]. Biliary hamartomata are thought to reside on the spectrum of congenital hepatic fibrosis and may be associated with other congenital diseases, including hepatic fibrosis, polycystic kidney disease, and Caroli’s disease [2]. Grossly, these lesions are usually multiple (von Meyenburg complex) and may be dispersed throughout the liver. Macroscopically, biliary hamartomata are whitish-gray and range from 5 to 10 mm in diameter [1,2]. The bile ducts within these lesions are also variable, ranging from narrow to very dilated [1,2]. Although the risk of malignant conversion is low, malignant transformation into cholangiocarcinoma has been reported [4].

The variable reported incidence of these macroscopic lesions adds to the diagnostic confusion. The reported incidence in autopsy series ranges from 0.69% in cases of macroscopic examination to 2.8% in microscopic surveys [1,2]. While histological analysis provides the most accurate diagnosis, ultrasonography, CT scanning, and Magnetic Resonance Imaging (MRI) also may show these lesions. The definitive diagnosis of biliary hamartomata should be based solely on tissue sampling.

The greatest challenge facing the field of organ transplantation today is increasing the number of allografts available for transplant. Increasing utilization of marginal organs has been advocated to address the organ shortage. To date, there have been very few reports on the use of donor livers with this finding [5]. We suspect that the natural history of these lesions in the transplant recipient will be benign as it usually is in the host.

References

Figure 1: Multiple hepatic lesions on exploration turned out to be biliary hamartoma on biopsy.

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