Ectopic Liver on Gallbladder during Laparoscopic Cholecystectomy- Case reports

Olivia Angelette, PA-C, Kishore Malireddy, MD

Minden Medical Center, Minden, Louisiana

Introduction

In this report we present two cases of incidental ectopic liver tissue found during laparoscopic cholecystectomy within a span of 5 months at rural health center. Ectopic liver tissue is an exceptional atypical finding with an incidence of 0.24 % to 0.47%

Case 1

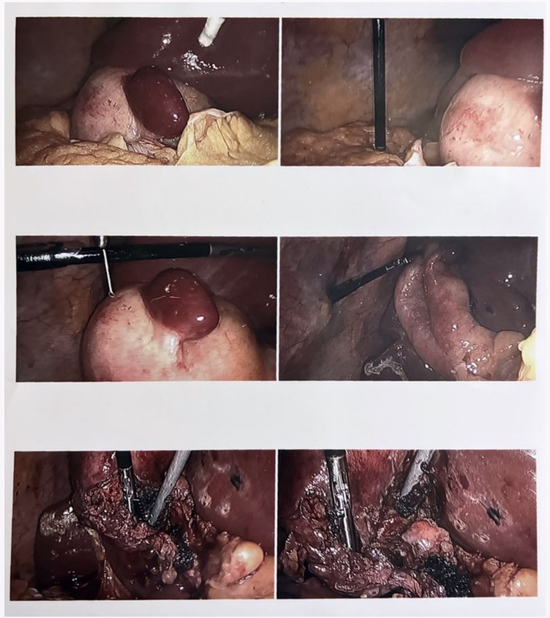
A 53-year-old male presented to the Emergency Department with complaints of right upper quadrant pain. Gallbladder ultrasound showed multiple gallstones with gallbladder wall thickening and normal liver function tests.

We scheduled for laparoscopic cholecystectomy. Intraoperatively omentum wrapped around the gallbladder. After meticulous dissection, the gallbladder was identified and it was inflamed, distended with thick wall.

An approximately 2 x 1 cm accessory liver tissue noted on the medial side of gallbladder separate from the liver. Gallbladder was tensely distended and thick, so aspirated to get a hold of gallbladder and after getting critical angle of safety, we removed the gallbladder along with accessory tissue intact.

Pathology showed acute cholecystitis and small fragment of benign liver parenchyma with mild steatosis and portal inflammatory changes.

Case 1 continued



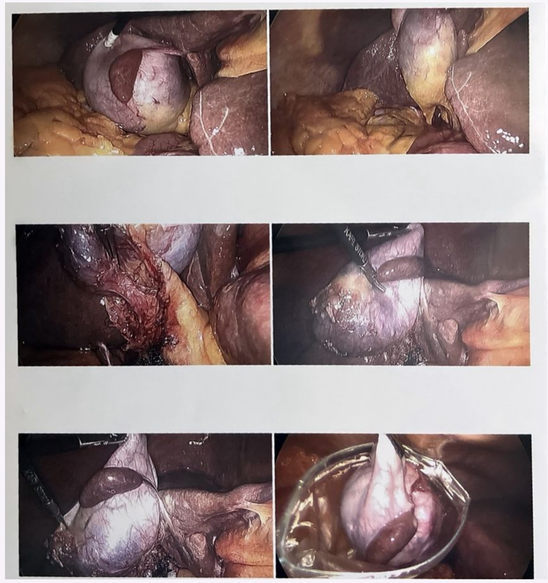
Case 2

A 66-year-old male presented recurrent episodes of cholecystitis. We scheduled him for laparoscopic cholecystectomy.

Case 2 continued

He had low platelets so 1 six-pack unit of platelets were administered preoperatively. During the procedure he was noted to have a large fatty liver and what appeared to be a small ectopic 2 x 3 cm liver tissue attached to the fundus of the gallbladder, separate from the liver. After critical angle of safety was identified, the gallbladder was removed along with accessory tissue intact

Pathology showed chronic cholecystitis, and 2.7 cm fragment of benign hepatic parenchyma without steatosis nor fibrosis.



Discussion

Ectopic liver is a noteworthy atypical finding. Ectopic liver is defined as hepatic tissue that is not directly connected to the liver proper whereas accessory liver lobe has communication with the liver proper. The most common site of ectopic liver is attached to the gallbladder.

From a surgical standpoint, it is very important to identify if there is any additional blood supply to the accessory liver tissue to avoid any inadvertent surgical bleeding.

Hepatic tissue found during both cases was ectopic because no accessory blood supply was identified supplying the tissue, nor was there drainage from the tissue to the liver proper.

Conclusion

Encountering ectopic liver tissue during laparoscopic cholecystectomy is rare and special attention should be paid to identify its blood supply.

References

Akbulut S, Demyati K, Ciftci F, Koc C, Tuncer A, Sahin E, Karadag N, Yilmaz S. Ectopic liver tissue (choristoma) on the gallbladder: A comprehensive literature review. World J Gastrointest Surg. 2020 Dec 27;12(12):534-548.

Avdaj A, Namani S, Cake A, Bytyqi A. Case report of ectopic hepatic tissue, a rare finding during a laparoscopic cholecystectomy. Int J Surg Case Rep. 2020;68:100-103. doi: 10.1016/j.ijscr.2020.01.014. Epub 2020 Jan 23.
Lundy J, Johnson E, Edwards K, Rivera D. Laparoscopic management of gallbladder-associated ectopic liver. JSLS. 2005 Oct-Dec;9(4):485-7.

Martinez CA, de Resende HC Jr, Rodrigues MR, Sato DT, Brunialti CV, Palma RT. Gallbladder-associated ectopic liver: A rare finding during a laparoscopic cholecystectomy. Int J Surg Case Rep. 2013;4(3):312-5. doi: 10.1016/j.ijscr.2013.01.006. Epub 2013 Jan 19.

www.PosterPresentations.com