Bipartite liver: an incidental rare anomaly of the liver

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Submitted May 05, 2022. Accepted for publication Jul 13, 2022.

doi: 10.21037/hbsn-22-128

View this article at: https://dx.doi.org/10.21037/hbsn-22-128

Bipartite liver is a rare congenital anomaly without phylogenetic significance, which needs to be known for the potential risk of torsion or internal gastrointestinal herniation and also in the pre-operative planning of liver surgery, being potentially associated to complex surgical dissection of the hepatic hilum.

A 77-year-old woman presented with recurrent episodes of right upper-quadrant abdominal pain and weight loss.

(A) 3D-reconstruction of bipartite liver; (B) abdominal CT-scan coronal view demonstrating the portal vein trifurcation with the sketch of the portal branch for hypoplastic segment IV (arrow), the RPV and LPV; (C,D) 3D reconstruction of bipartite liver portal vein distribution. RPV, right portal vein; LPV, left portal vein.

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During the diagnostic workup a computed tomographic scan showed a cholangiocarcinoma of segment six and gallstones, in the context of a bipartite liver where otherwise normal right and left lobes were distinctly divided from each other by a bridge of tissue.

A robot-assisted hepatic segmentectomy and cholecystectomy with the use of indocyanine-green cholangiography and intraoperative ultrasound were performed.

Acknowledgments

Funding: None.

Footnote

Provenance and Peer Review: This article was a standard submission to the journal. The article did not undergo external peer review.

Cite this article as: De Rosa M, Ceccarelli G. Bipartite liver: an incidental rare anomaly of the liver. HepatoBiliary Surg Nutr 2022;11(4):649-650. doi: 10.21037/hbsn-22-128

Conflicts of Interest: Both authors have completed the ICMJE uniform disclosure form (available at https://hbsn.amegroups.com/article/view/10.21037/hbsn-22-128/coif). The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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