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Gallbladder Volvulus with segmental right liver lobe hypoplasia/atrophy: A preoperative diagnostic dilemma

Gallbladder Volvulus (GBV) due to rotation of the gallbladder (GB) around its own mesentery, is rare surgical emergency and often identified intraoperatively. Typically, cholecystitis is the initial clinical diagnosis but a high index of suspicion on imaging can alert the physician for the possibility of GBV requiring urgent surgical intervention.

We describe a case of a young female patient with hypoplasia/atrophy of posterior segment of right liver lobe and a GB with no hepatic attachments but only mesenteric pedicle; an anatomical variant combination which has not been classified before. She presented with first episode of sudden onset severe right subcostal pain. The ultrasonogram and magnetic resonance cholangiopancreatogram findings were suggestive of GBV. She underwent laparoscopic exploration that confirmed GBV of a free-floating GB with a thrombosed cystic artery. The GB was detorted and cholecystectomy was performed. She had an uneventful postoperative course and was discharged with no complications. Histopathologic examination showed intramural hematoma of GB with wall necrosis.

Biography

Syed Muhammad Ali is a Consultant General Surgeon in Hamad Medical Corporation, and Assistant Professor in Clinical Surgery in Weill Cornell Medical School in Qatar. He graduated from Sindh Medical College, Karachi, Pakistan with honours and finished his residency in General Surgery from Jinnah Postgraduate Medical Centre, Karachi. He earned his fellowship in General Surgery from College of Physicians and Surgeons, Pakistan and worked as Assistant Professor in Surgery in Baqai Medical University, Pakistan. He is a member of Royal College of Surgeons, England and holds the fellowship in General Surgery from Royal College of Surgeons, Edinburgh. He got his fellowship in Colorectal Surgery from European Board of Medical Specialties. He is also a fellow of American College of Surgeons. He has interest in rectal cancers and fistula in and along with hernia surgery. He is an excellent academician and received many awards for his best teaching. He has many publications under his name and reviewer of many journals.

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