Case Report

Gallbladder Mass and Diffuse Wall Thickness in an Elderly Patient: is it Definitively a Gallbladder Cancer?

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Introduction

Gallbladder mass is commonly encountered at clinical scenario. However, distinguishing between benign and malignant entity is critical especially in an elderly patient. Although most gallbladder masses could be benign, they may present with unusual or nonspecific imaging appearance that is unable to differential diagnosis with gallbladder carcinoma [1]. As such, gallbladder carcinoma remains a common malignancy of the biliary tract with dismal prognosis [2]. Patients with a gallbladder mass are not definitively related to malignancy but should also be kept in mind the possibility of carcinoma. Therefore, patients with a gallbladder mass are not definitively related to malignancy but should also be kept in mind the possibility of carcinoma. As long as pathological diagnosis is confirmed, surgical management with a therapeutic intent based on suitable clinical circumstances should be attempted.

Patient information

A 73-year-old man presented with intermittent post prandial nausea and abdominal fullness for 6 months. It was accompanied by decreased appetite and weight loss of 3 kg since the onset of symptoms. During this period, he had no abdominal pain associated with fever. His medical history included hypertension that was well-controlled by medication, with no previous surgical history. Physical examination found a vague palpable mass with mild local tenderness in the right upper quadrant of the abdomen. Ultrasonographic examination revealed a gallbladder mass and laboratory testing of blood samples, liver function tests, and tests for alpha fetoprotein (7.7 ng/mL), carcinoembryonic antigen (<0.5 ng/mL), and carbohydrate antigen 19-9 (9.52 ng/mL) were all within the reference ranges. Abdominal contrast-enhanced computed tomography (CT) showed a gallbladder mass with diffuse wall thickening, hyperemic change of adjacent liver tissue, and adhesions to gastric antrum and duodenal bulb. (Figure 1). Additionally, magnetic resonance cholangiopancreatography (MRCP) showed similar finding to the CT results, and mild dilatation of the biliary tree with a 1.1-cm common bile duct stone and an enlarged choledocal lymphadenopathy were also noted (Figure 2).
presentation of chronic cholecystitis could be diverse, especially in complicated cases. Moreover, CT could provide information on anatomy, regional lymphadenopathy, and extrahepatic disease if malignancy is suspected, and could further display details of the biliary tract and vasculature. However, the gallbladder may be enlarged or shrunken due to fibrosis, with various degrees of wall thickening and irregularity that mimic cancer in radiological imaging examination, leading to a difficulty in the differential diagnosis of chronic cholecystitis from malignancy.

Although rare, gallbladder carcinoma remains a common malignancy of the biliary tract with dismal prognosis [2]. Clinically, gallbladder carcinoma can show symptoms and imaging findings resembling cholecystitis. Additionally, gallbladder carcinoma is possibly associated with cholecystitis specifically in elderly patients [5, 6]. A gallbladder that is suspicious for malignancy requires meticulous workup, but the necessity of a pre-operative biopsy remains controversial due to concerns related to a risk of the tumor seeding to peritoneum and biopsy tracts. Nonetheless, intraoperative frozen section is usually recommended for highly suspicious cases to confirm malignancy. As such, surgical resection with curative intent remains the most effective treatment for patients with gallbladder carcinoma if malignancy is confirmed [7, 8]. In summary, patients with a gallbladder mass are not definitively related to malignancy but should also be kept in mind the possibility of carcinoma. Although the preoperative biopsy remains debatable, intra-operative frozen section is mandatory to exclude malignancy. As long as malignancy is confirmed, surgical resection with a curative intent based on suitable clinical staging could be the best treatment available for patients with gallbladder carcinoma. In contrast, surgical management in terms of relieving clinical symptoms is adequate for inflammatory cholecystitis.

Conflicts of Interest

All authors have no conflict of interest.

REFERENCES

