ABSTRACT

Introduction: Adenomyomatosis is a benign alteration of gall bladder wall that can be found in 9% of patients. We present a case of gall bladder adenomyomatosis of young male presented with right upper quadrant pain.

Case Report: A 22 year old male admitted with a history of pain over right upper quadrant for 8 months. The patient’s physical examination revealed tenderness over the right hypochondrium region. Contrast enhanced computed tomography showed - gall bladder wall appeared diffusely thickened with multiple small cystic areas noted.

Conclusion: Symptomatic gall bladder adenomyomatosis is an indicator for cholecystectomy, which results in complete disappearance of symptoms. Asymptomatic cases are not an indication for surgery, but the radiological diagnosis must be beyond any doubt. If there is any diagnostic doubt about the possibility of gall bladder cancer, a cholecystectomy is justified.

Keywords: Adenomyomatosis; gall bladder; cholecystectomy.
1. INTRODUCTION

The Aim of this study is presenting a rare case of gall bladder adenomyomatosis.

Adenomyomatosis is a benign alterations of gall bladder wall that can be found in 9% of patients. We present a case of gall bladder adenomyomatosis of young male presented with right upper quadrant pain. Gall bladder adenomyomatosis is a rare gall bladder abnormality with distinctive gross and histopathological features and relatively specific findings at multimodality imaging. They may differentially diagnosed as cholecystitis or malignant lesions of gall bladder. It is most often an incidental finding, has no intrinsic malignant potential and usually needs no treatment.

2. CASE REPORT

A 22 year old male admitted with a history of pain over right upper quadrant for 8 months. The patient’s physical examination revealed tenderness over the right hypochondrium region. Contrast enhanced computed tomography showed - gall bladder wall appeared diffusely thickened with multiple small cystic areas noted. Heterodense enhancement noted on contrast administration. Features suggestive of gall bladder adenomyomatosis. Laparoscopic cholecystectomy was done. Gall bladder was sent for Histopathological examination. Post operative period was uneventful. Grossly, gall bladder measuring 9*4.5*1.5cm. External surface near the fundus appears irregular, not covered by serosa. Cut surface revealed a thickened grey white area at the fundus of gall bladder measuring 2*1.5*1.5 cm. It is pale white and focal grey brown areas are seen. Grossly it appears involving the serosa. It is 6cm away from the resected margin. The neck and the body is normal. The wall is thickened ranging from 1 to 1.5cm. Histopathological report was eosinophilic cholecystitis with adenomatous hyperplasia.

3. DISCUSSION AND CONCLUSION

Adenomyomatosis of Gall Bladder is a benign and acquired condition.

Chronic inflammation of Gall Bladder is the precursor. It is typically seen in 5Th decade of life. As the result of prolonged inflammation, the incidence tends to increase with age. Female predilection is seen (M:F=1:3). Gall Bladder Adenomyomatosis is not a pre-malignant lesion, but chronic inflammation tend to have high risk of malignant transformation. Gall Bladder Adenomyomatosis is characterised by Rokitansky Aschoff Sinuses - outpouchings of mucosa into the muscle layer. There is excessive epithelial proliferation with hypertrophic of muscularis propria. Types of Gall Bladder Adenomyomatosis include 1) fundal- the focal thickening seen in the Gall Bladder fundus 2) Segmental - circumferential growth in the Gall Bladder forming compartments and 3) diffuse-characterised by disseminated thickening of Gall Bladder. Nowadays Gall Bladder Adenomyomatosis is being increasingly diagnosed with the use of wide spectra of Radiological imaging studies. Characteristic ultrasound find is comet-tail artefacts, Pearl-necklace sign on MRI and rosary sign in computed tomography. To conclude - symptomatic gall bladder is not an indication for cholecystectomy and periodic follow up and observation for co-existing malignant changes is needed. When it is symptomatic cholecystectomy is done. When in doubt of malignancy too, cholecystectomyis indicated.

Fig. 1. Histopathological report was eosinophilic cholecystitis with adenomatous hyperplasia
ETHICAL APPROVAL
As per international standard or university standard written ethical approval has been collected and preserved by the author(s).

CONSENT
As per international standard or university standard, patient's written consent has been collected and preserved by the author(s).

COMPETING INTERESTS
Authors have declared that no competing interests exist.

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