**Simplified Technique of Conventional Cholecystectomy in a Patient with Situs Inversus Totalis: A Case Report from Nepal**

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**ABSTRACT**

**Introduction:** Situs inversus is a rare autosomal recessive disorder occurring in 1:5,000 to 1:20,000 individuals. Cholecystectomy is a standard treatment for symptomatic gallbladder stone. We report a case of cholelithiasis in patient with inversus totalis who underwent cholecystectomy.

**Case presentation:** A 48 years old obese female patient with dextrocardia and hypertension presented with a recurrent left upper abdominal pain for two years. Ultrasound abdomen showed gallbladder stone. Conventional cholecystectomy was done with a small left subcostal incision. The postoperative period was uneventful and the patient was discharged on 3rd post operative day. **Conclusion:** Cholecystectomy is the treatment of choice in patients with a left sided gallbladder stone, like in normal gallbladder and it is safe.

**Keywords:** Conventional cholecystectomy, Gallstone disease, Situs inversus totalis

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**INTRODUCTION**

Situs inversus totalis is a rare autosomal recessive disorder and occurs in 1:8,500 however incidence ranges from 1:5,000 to 1:20,000. It is a congenital anomaly in which internal viscera are located in opposite side, and heart is towards right side of chest. Transposed thoracic and abdominal organs are a mirror image of the normal anatomy. Some time it is associated with other congenital anomalies such as kartagener syndrome. Generally, patients with situs inversus totalis are asymptomatic and have a normal life expectancy.

We reported a case of symptomatic gallstone with hypertension in situs inversus totalis at Baishnavi Hospital, Nepalgunj.

**CASE PRESENTATION**

A 48 years old female patient with hypertension presented with a 2 year history of episodic pain over the left upper abdomen and dyspepsia. On examination abdomen was mildly tender in left hypochondrium. Ultrasound abdomen was done which revealed a left sided gallbladder with gallstones. The intrahepatic as well as extrahepatic biliary tracts were normal. Chest x-ray showed dextrocardia (Figure 1). Liver function test and other biochemical parameters were normal. In view of symptomatic gallbladder stone she was planned for cholecystectomy and conventional cholecystectomy was done through a small subcostal incision under general anesthesia (Figure 2). Skin, superficial fascia, muscles, and the peritonium were incised. Calot’s triangle was dissected carefully; cystic duct and artery were ligated and cut. The gallbladder was removed from its bed and the abdomen was closed in layers. The postoperative period was uneventful. The patient was discharged on the 3rd postoperative day.

**DISCUSSION**

Cholelithiasis is the most common benign disease of gallbladder. The diagnosis of cholelithiasis is usually based on clinical symptoms and ultrasound abdomen. The left sided gallbladder (LSG) can be found in either in situs inversus or as an isolated finding. It was first reported in 1856, who first described the finding on three separate specimens. The finding of left sided gallbladder (LSG) can be found in either in situs inversus or as an isolated finding. It was first reported in 1856, who first described the finding on three separate specimens. The finding of left sided gallbladder (LSG) can be found in either in situs inversus or as an isolated finding. It was first reported in 1856, who first described the finding on three separate specimens. The finding of left sided gallbladder (LSG) can be found in either in situs inversus or as an isolated finding. It was first reported in 1856, who first described the finding on three separate specimens. The finding of left sided gallbladder (LSG) can be found in either in situs inversus or as an isolated finding.
myocardial Infarction. Laparoscopic cholecystectomy remains the standard operation for treatment of gallstone disease, even in patients with situs inversus. Due to high blood pressure of the patient we chose conventional cholecystectomy. The type of surgical procedure depends upon the indications, comorbidity, the surgeon’s preference, his expertise and patient’s choice. Few cases of laparoscopic cholecystectomy has been published even in case of situs inversus cholelithiasis (Table I).

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<td>supine</td>
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N/A: not available

Table I: Review of choleleithiasis with situs inversus

CONCLUSION

Like in cholelithiasis with normal anatomy, cholecystectomy in symptomatic gall stone is the standard treatment in situs inversus or isolated left sided gallbladder. Cholecystectomy in these patient is slightly difficult because of abnormal anatomy but it is safe.

REFERENCES