Case Report

Omental Lymphangioma in Adults—Rare Presentation
Report of a Case

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Received 17 June 2012; Accepted 16 September 2012

1. Introduction

Lymphangioma is an uncommon benign lesion that usually occurs during childhood. Its occurrence in adults is rare. Its presentation in the abdomen is even rarer. This case report describes a case of omental lymphangioma presented as retroperitoneal lump. Subsequent imaging, operative, and histological findings revealed omental lymphangioma. Laparotomy done under general anesthesia, a 10 × 12 cm cystic swelling arising from omentum, identified complete excision of the cyst done and send the specimen for histopathological examination. Biopsy report came as omental lymphangioma. Complete surgical excision is the treatment of choice. Prognosis is excellent and recurrence rate is very low if resection is complete. During two years of followup no recurrence was detected. Omental lymphangioma is very rare presentation among abdominal lymphangiomas specifically in adults. Complete excision is the treatment of choice. Long-term followup is required to detect recurrence.

2. Case Report

A 35-year-old female patient presented with a history of pain abdomen. On examination abdominal lump of size 10 × 12 cm, occupying the right lumbar region extending to umbilical region smooth surface, soft in consistency, as retroperitoneal in position, was identified. Routine blood investigations show no obvious abnormality. As ultrasound abdomen shows 10 × 12 cm cystic anechoic lesion with multiple septations seen suggestive of lymphangioma. CECT abdomen was done showing multiseptate cystic mass with contrast enhancement of cyst walls suggestive of lymphangioma arising from omentum. Laparotomy done, intraoperatively a 10 × 12 cm cystic mass occupying umbilical, right lumbar regions extended up to sub hepatic region...
identified. Complete excision was done. Postoperative period was uneventful. During follow-up period no recurrence was found (Figure 1).

3. Discussion

The etiology of lymphangiomas remains unclear. Because lymphangiomas occur mainly in children, the majority of cases are thought to derive from a congenital abnormality of lymphatic system. Clinical presentation can be variable and nonspecific. Acute symptoms include acute abdomen, distension, vomiting, and fever. Chronic symptoms include progressive abdominal distension and pain. Plain radiographs may show noncalcified soft tissue mass, displacement of intestinal loops and small bowel obstruction. Ultrasonography and CECT are highly sensitive tests that can be used in diagnosis [2]. Sonographically lymphangiomas are anechoic cystic masses that have posterior acoustic enhancement. They can be multilocular with internal septa. Sometimes internal dermis even solid echogenicity with a honey comb pattern, can be demonstrated. Their variable echogenicity is accounted for by the various contents that are possible. CECT can provide information regarding anatomical location, adjacent organ involvement, size, and complications. On CT scan lymphangiomas are thin walled multiseptated cystic masses. The attenuation of the fluid ranges from that of clear/complicated fluid to that of fat, depending on various contents. The cyst wall and septa can show enhancement after intravenous injection of contrast. Calcification is uncommon [3]. Complications of lymphangioma include hemorrhage, infection, torsion, and small bowel obstruction [4]. Konen et al. suggested that progressive enlargement, multiplication, thickening of septa, and increased echogenicity of cystic fluid are signs which suggest complications that require urgent treatment. For confirmation of diagnosis ultrasound/CECT abdomen should be done. However there can be no specific radiological features to differentiate between these options—histological evaluation may be necessary. Ascites and lymphangioma can also be difficult to differentiate [11]. The presence of septa, compression on adjacent intestinal loops, and lack of fluid in the dependent recess of peritoneum between leaves of small bowel mesentery suggest lymphangioma [12–14]. Malignant degeneration to low grade sarcoma has been reported but is rare. For the present case laparotomy done under general anaesthesia, a 10×12 cm cystic swelling arising from omentum, was identified. Complete excision of the cyst was done. Histopathological examination shows features of lymphangioma. During follow-up period of two years no recurrence was identified.

4. Conclusion

Omental lymphangioma is very rare presentation among abdominal lymphangiomas specifically in adults. Complete excision is the treatment of choice. Long-term followup is required to detect recurrence.

Acknowledgment

The authors thank the patient for giving consent for publication. This paper has not been published previously and is not currently under consideration for publication elsewhere.

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