







Case Report

A rare case of massive adult mesentericlymphangiomatosis presenting as acute abdominal obstruction - A Case report

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Abstract

A lymphangioma usually appears as a partially septated, cystic mass on imaging studies including ultrasound, Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). Lymphangioma is a rare benign tumor that develops in the lymphatic system. "Generalized lymphangiomatosis" is term given to diffuse occurance of the disease [4]. This disease usually occurs in children and involves the skin.

Case report

A 45 Year old female presented to ER with complaints of pain abdomen since 8 days associated with fever, vomiting and absolute constipation since 7 days.On per abdominal examination abdomen was grossly distended with board like rigidity and rebound tenderness with absent bowel sounds. Note on percussion was tympanic. Pain started in the right lower abdomen, progressed to entire abdomen over the period of 8 days.Blood investigations showed raised TLC of 32,000 cumm and acidosis with pH of 7.0.X-ray erect abdomen standing showed multiple air-fluid levels with ground glass appearance and an USG showed multiseptated organized collection filling the peritoneal cavity with dilated bowel loops showing sluggish peristalsis.Patient was immediately admitted and after initial resuscitation with a pre-operative diagnosis of peritonitis secondary to perforation was taken to the OR.Approximately 500ml of whitish foul smelling fluid was present in the peritoneal cavity.

Approximately three and a half feet away from the duodenojejunal junction, grossly thickened lobulated mesentery encasing one feet of ileum within it was seen. It caused extra luminal obstruction (Figures 1a,b).

Grossly thickened lobulated mesentery containing multiple cysts within it which were filled with whitish fluid (Figure 2). Exploratory laparotomy was performed with resection of the encased bowel and mesentery. The resected bowel was anastomosed with through peritoneal toileting.

Histopathology report was a surprise "Cavernous lymphangioma of the mesentery and involving bowel" (Figure

Post operatively patient was in ICU for one day and thereafter was shifted and discharged from ward after 8 days without any significant post-op period.

Discussion

Lymphangioma or lymphangiomatosis mostly involve the skin, the covering of various organs except brain.

More than 90% are diagnosed below age of 2 years [1,2].

adults, gastrointestinal tract involvement of lymphangioma is very rare and the distal ileal mesentery is commonly affected [3].

They are considered to be a congenital dysplasia of lymphatic tissue and abnormal development of the lymphatic vessels during fetal life [5,6].

The macroscopic appearance of lymphangioma is a cystic



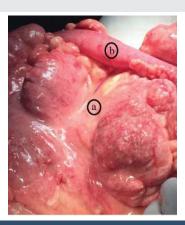


Figure 1: A. Thickened mesentery with multiple cysts, encasing B. Collapsed small bowel.

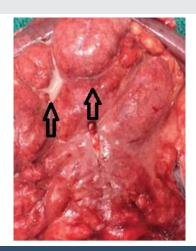


Figure 2: Thickend mesentery with whitish fluid filled multiple cystsc.

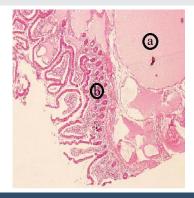


Figure 3: Dilated lymph channels in the (a) mesentery and (b) bowel wall.

mass with partial septations and its histological characteristics are endothelial-lined, dilated, communicating lymphatic channels containing a variable amount of connective tissue

Lymphangiomas can be simple capillary, cavernous, or cystic according to its anatomy [8,9].

Cavernous lymphangioma is composed of dilated lymphatic

vessels and lymphoid stroma and is connected with the adjacent normal lymphatics.

Whereas cystic variety comprises of various-sized lymphatic spaces without connection with the adjacent normal lymphatics.

However, as cystic lymphangiomas may have a cavernous area, clear differentiation between cystic and cavernous lymphangioma is not always possible [9,10].

These are classified into four categories [11]: cavernous lymphangioma, capillary lymphangioma, cystic lymphangioma (hygroma) and hemolymphangioma (a combination of hemangioma and lymphangioma).

It can be limited to a particular organ or structure (e.g., spleen, liver, or thoracic cavity) or involve a more generalized process [12].

Due to absence of lymphatics in brain its spared from lymphangiomatosis.

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