
OMENTAL LEIOMYOMA AND LYPHANGIOMA CASE REPORT.

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ABSTRACT

Mixed type of omental leiomyoma and lymphangioma are rare benign solid tumor. We reported ultrasound and CT findings of large omental leiomyoma and lymphangioma in a 24 years old female, who presented with abdominal distention and feeling of fullness in the abdomen. Complete surgical removal was performed and the pathologic result verified the roentgen diagnosis.

INTRODUCTION

Omental solid tumor is a rare tumor. Most common presentation is distended abdomen, palpable abdominal mass, or feeling of fullness. We reported sonographic and CT findings of a case of a large omental leiomyoma and lymphangioma in a 24 yrs old female patient. Surgical removal of the tumor mass was performed and the pathologic result confirmed the roentgen the diagnosis.

CASE REPORT

A 24 yrs old female presented with some abdominal discomfort and feeling of gradual distention during the last 2 years. Physical examination reveals abdominal distention with a huge mass occupying from the upper to the middle part of the abdomen, left side. (figure 1)

Ultrasound reveals a large well defined border, inhomogeneous intermediate echoic mass occupying the left half of the abdomen. (figure 2)

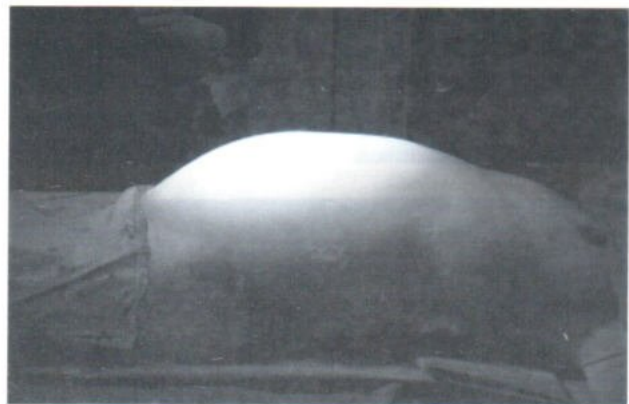


Fig. 1 Photograph shows distended abdomen



Fig. 2 US reveals large well defined border, inhomogenous, intermediate echoic solid mass at left side of upper abdomen, not connected to the uterus.

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Computed Tomography (CT) showed a large well defined border, inhomogeneous mixed attenuated solid mass with minimal enhancement, about 24x15 cm in size, occupying the left side of abdominal cavity (figure 3) Multiple small tubular enhancement structures and small cystic lesions abuted the anterior

surface at the upper pole of the mass were noted. The loops of small bowel were displaced to the right, laterally. The stomach and spleen were also displaced up ward and laterally. The abnormal solid mass was not attached to the ovary or uterus. No ascites or definite enlarged abdominal nodes, were noted.

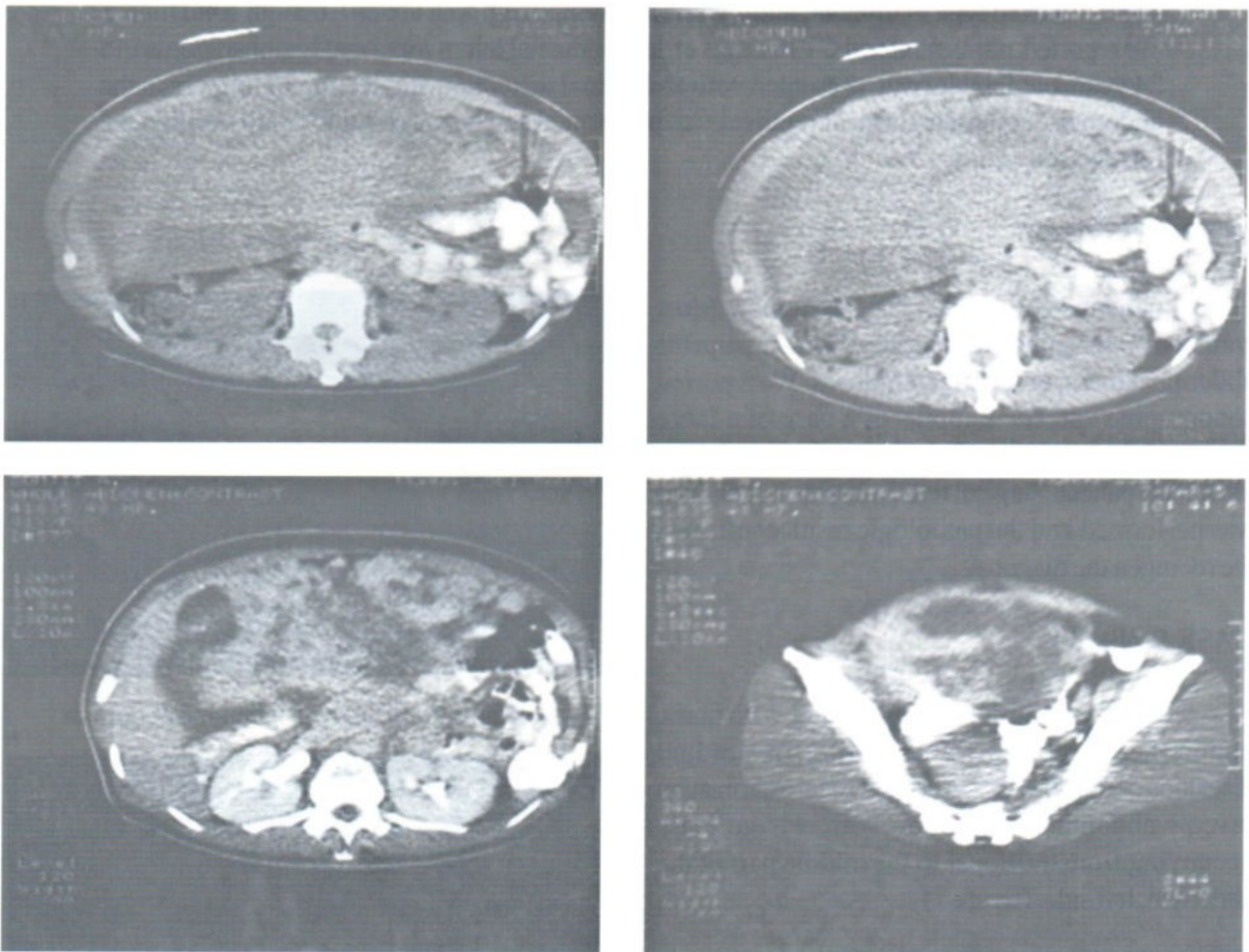


Fig. 3 CT scan showed a large, well defined border, inhomogeneous mixed attenuated solid mass with minimally enhancement, not attached to the uterus. Multiple small enhancement tortuous tubular structures and small cystic lesions at the anterior surface of mass, were noted.

On operation, finding showed a large well defined encapsulated solid mass occupying in the upper part of the left side of the abdominal cavity, occupying the whole part of greater omentum. The loops of small bowel were displaced to the right side

of abdomen. Multiple tortuous dilated veins and lymphadenoma were seen, at the anterior surface of the upper part of mass. (figure 4) Complete tumor removal with intact capsule was performed. (figure 5)

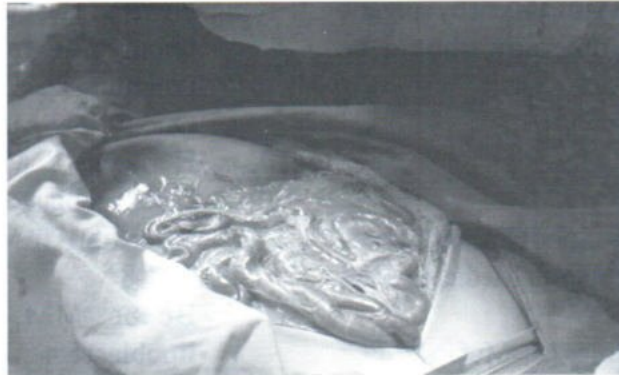
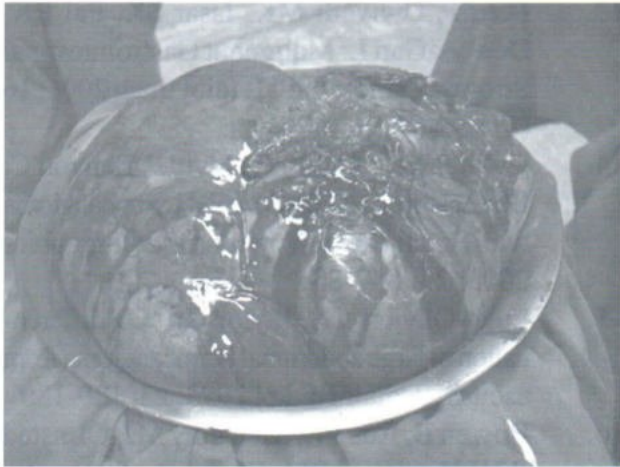
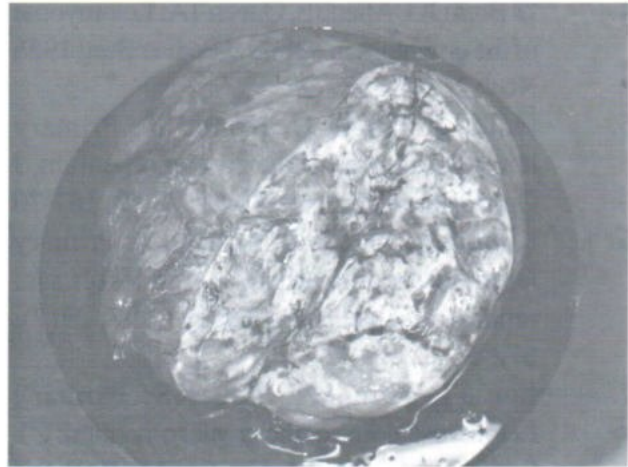


Fig. 4 At the operative field, multiple tortuous dilated veins and lymphoedema were seen at the surface of the abdominal mass.



A



B

Fig. 5 Large well defined encapsulated tumor mass, about 30x30 cm in size (A) was removed. Cut surface of the tumor mass (B)

DISCUSSION

Solid omental mass is rare, particularly leiomyoma which is about 15% of all primary omental tumor.¹⁻³ Leiomyoma is a benign tumor of smooth muscle and lymphangioma is the rare benign tumor of lymphatic duct.^{1-4,14-16} Although the greater omentum is mainly composed of adipose tissue, vascular and lymphatic, the omental tumor predominately consisted of smooth muscle tissue that possibly arise from smooth muscle of small blood vessels.¹⁻⁴

The most common malignant tumors are

leiomyosarcoma, hemangiopericytoma and fibrosarcoma.¹⁻¹⁶ The most common benign tumors included gastrointestinal stromal tumors¹³ which have malignant potential, dependent on tumor size, mitotic activity and invasive growth are leiomyomas, lipomas and fibromas.^{1,2,4}

The informative findings of the investigation such as ultrasound, CT scan, MRI or tumor markers should be helpful for therapeutic planning.^{7,16} The benign conditions will be cured by surgery, but the

malignant conditions, combined treatment by surgery, chemotherapy and/or radiotherapy, should be considered.

REFERENCES

1. Quintessa Miller, MD: Solid Omental tumors review of literature articles. eMedicine-solid tumor 2006 Mar 7
2. Schawartz RW, Reames M, McGrath PC: Primary Solid Neoplasms of the greater omentum. *Surgery* 1991 April; 109(4): 543-9
3. Ishida H, Ishida J: Primary tumors of greater omentum. *Eur Radiol* 1998; 8(9): 1598-601
4. O'Brein JG, Allen JE, Queen TA: Leiomyoma of the omentum in a child. *J Pediatr Surg* 1986 Nov; 21(11): 981-2
5. Ishida J, Ishida H, Konno K: Primary leiomyosarcoma of the greater omentum. *J Clin Gastroenterol* 1999 Mar; 28(2): 167-70
6. Kimura H, Maeda K, Konishi K: Primary leiomyosarcoma arising in the lesser sac: report of a case. *Surg Today* 1997; 27(7): 672-5
7. Lee JT, Kim MJ, Yoo KS: Primary Leiomyosarcoma of the greater omentum: CT findings. *J Comput Assist Tomogr* 1991 Jan-Feb; 15(1): 92-4
8. Mahon DE, Carp NZ, Goldhahn RT Jr: Primary leiomyosarcoma of the greater omentum. *A, J Surg* 1980 Sep; 140(3): 457-61
9. Niwa K, Hashimoto M, Hirano S: Primary leiomyosarcoma arising from the greater omentum in a 15-year-old girl. *Gynecol Oncol* 1999 Aug; 74(2): 308-10
10. Hertzanu Y, Mendelson DB, Murray JF: Leiomyoblastoma of the omentum. A case report. *S Afr Med J* 1982 Aug 21; 62(9): 297-8
11. Beebe MM, Smith MD: Omental lipoblastoma; *J pediatr Surg* 1993 Dec; 28(12): 1626-7
12. Rao SR, Rao RS, Sampat MB: Hemangiopericytoma of greater omentum. *Indian J Gastroenterol* 2000 Jan-Mar; 19(1): 33-5
13. Issar P, Dwivedi MK, Issar SK, Pal RK, Dewana Gan L: Malignant Gastrointestinal Stromal Tumor; *Ind J Radiol Imag* 2006; 16(1): 65-67
14. Colin R Mar, Chitra P, David P, Benvon C: Best case from AFIP-Omental Lymphangioma with Small Bowel Volvulus; *Radiographics* 2003; 23: 847-851
15. Lugo-Olivieri CH, Taylor GA: CT differentiation of large abdominal lymphangioma from ascites. *Pediatr Radiol* 1993; 23: 129-130
16. Bowen B, Ros PR, McCathy MJ, Olmsted WW, Hjermstad BM: Gastrointestinal teratomas: CT and US appearance with pathologic correlation. *Radiology Padiology* 1987; 162: 431-433