Retroperitoneal Cystic Lymphangioma: About A Case and Review of The Literature


Abstract—Cystic lymphangioma is a rare benign malformative tumor of lymphatic vessels in various locations. We report the observation of a 62-year-old man who had been consulting for major abdominal distention for 5 years. The clinical examination found a very distended abdomen with collateral venous circulation.

The imaging was in favor of a cystic retroperitoneal image. Surgical exploration showed a retroperitoneal cystic mass. Anatomo-pathological examination concluded that retroperitoneal cystic lymphangioma.

Index Terms— Retroperitoneal cystic lymphangioma, diagnosis, treatment.

I. INTRODUCTION

Retroperitoneal localization is less common compared to mesenteric. His clinical presentation is polymorphic. Diagnosis is evoked by imaging but requires histological confirmation. The treatment of choice is surgical. Retroperitoneal cystic lymphangioma represents a rare benign tumor whose clinical presentation is polymorphic. Diagnosis is evoked by imaging but requires histological confirmation. The treatment of choice is surgical.

II. OBSERVATION

A 62-year-old man, with no particular pathological history, was seen for a progressive abdominal distension for 5 years complicating with transit trouble three months before the consultation.

Clinical examination revealed significant abdominal distension; an unfolding of the umbilicus and a collateral venous circulation (Figure 1), the palpation objectified a fluid mass occupying the whole abdomen, mobile with respect to the superficial planes.

The rest of the clinical examination was normal. The biological assessment was correct.

The abdominal ultrasound showed a huge right retroperitoneal fluid mass pushing the right kidney forward and to the left side and extending to the pelvis without detectable lymphadenopathy. The abdominal CT showed the presence of a partitioned abdominal-pelvic cystic mass with heterogeneous enhancement, pushing back the colonic framework and the small bowels anteriorly and the inferior vena cava and the aorta behind and the kidney forward and to the left (Figure 2).

The surgical exploration found a voluminous multi-peritoneal lobulated cystic mass containing a citric fluid; complete resection was performed. The anatomo-pathological study had concluded a retroperitoneal cystic lymphangioma.

III. DISCUSSION

Cystic lymphangiomas are rare benign tumors [1,2] seen mainly in children [3]. In adults, they represent only 7% of abdominal cysts [4]. Two theories have been proposed for origin of these cystic lymphangioma. The first suggests an acquired origin resulting from an obstruction of the lymphatic vessels as a result of inflammation, trauma or degeneration [5]. The second speaks of a malformative origin. The most frequently affected areas are the subcutaneous tissues of the neck (about 75%) and underarms (about 15%). The mediastinal and abdominal locations are much rarer, about 10% of cases. Retroperitoneal localization is less common than mesenteric localization [6].

The clinical manifestations of retroperitoneal cystic lymphangioma are highly polymorphic [7]. They are related to tumor volume or complication, ranging from an often asymptomatic mass in adults to acute abdominal pain or even complications such as rupture, intra-cystic haemorrhage, occlusion, torsion, compression or infiltration.
of vital structures. A large tumor volume usually causes abdominal pain, the most common symptom [8].

No sign is specific and it will guide the diagnosis. Ultrasound is the most useful examination initially. It typically shows a plain or multilocular fluid tumor with thin septa that is well-limited [9]. The content of cysts, which is often transonic, can become echogenic with intra-cystic haemorrhage or even contain some calcifications [9]. The CT allows to study the density of the tumor and to evaluate more precisely the relations with the neighboring organs and to differentiate the intra and retroperitoneal lymphangiomas. The MRI also allows an accurate diagnosis, appreciating very well the perivascular extension of the lesion [5].

Diagnostic evidence of cystic lymphangioma is provided by pathological examination. Histologically, retroperitoneal lymphangioma consists of cavities lined by an endothelium resting on fibrous tissue containing lymphoeytis islets and sometimes smooth muscle fibers. Inflammation and haemorrhage often cause reshaping with disappearance of the endothelium, appearance of fibrin deposits, sometimes making the histological diagnosis impossible on simple biopsies [7].

The therapeutic indication must take into account the benign nature of the tumor, but also and especially complications often revealing lymphangioma. Surgical excision is the classic attitude; it must be as complete as possible, thus avoiding recurrences [10], while remaining conservative for other organs, given the benign nature of lymphangioma.

IV. CONCLUSION

Retroperitoneal cystic lymphangioma is a rare entity that does not always have a classical appearance. The clinical symptomatology is nonspecific. Diagnosis is suspected on imaging and confirmed only by histology. The treatment of choice is complete surgical excision.

REFERENCES
