Retroperitoneal Liposarcoma Mimicking an Ovarian Tumor: A Diagnostic Dilemma

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Abstract

Introduction: Retroperitoneal liposarcoma is a malignant, primitive and rare mesenchymal tumor. We report an observation of a retroperitoneal liposarcoma mimicking an ovarian tumor. Case: A 36-year-old female presented a pelvic pain type gravity whose examination found an abdominopelvic mass, an abdominopelvic computed tomography showed a large abdominal-pelvic mass with a fatty component leading to the diagnosis of ovarian teratoma. At exploratory laparotomy, we found a large abdomino-pelvic mass of 30 × 35 cm, and a large resection was realised. The histopathologic examination found a liposarcoma well differentiated (grade 1). Conclusion: The different pathological aspects, the therapeutic options and the prognostic factors of the abdominal liposarcomas will be discussed in this article.

Keywords

Liposarcoma, Retroperitoneum

1. Introduction

Liposarcomas are malignant neoplasm deriving from the fatty tissue. There are rare tumors accounting for 0.8% to 1% of all malignant neoplasm and only 10% - 15% are retroperitoneal [1]. They pose a problem of diagnostic and therapeutic because the symptoms are usually late and nonspecific, so they can grow slowly in the retroperitoneal space and they extend in retroperitoneal into the female pelvis that represent a potential pitfall for gynecologists who can misdiagnose them as adnexal masses. We report a case of retroperitoneal liposarcoma, mimicking an ovarian tumor due to radiological similarities.

2. Case

Patient aged 36, 2 gestures 2 parities 2 living children, having a regular cycle
without notion of contraception and without any personnel or family medical history, presented since 2 months pelvic pain type gravity accompanied with abdominal distension. During examination we found a huge abdominopelvic masse arriving to umbilicus with soft consistency, mobile, sensitive to palpation and the rest of examination was normal. Ultrasonography showed a homogeneous, hyperechogenic abdomino-pelvic mass without vegetations extended to the right kidney, without peritoneal effusion and the color Doppler examination showed poor intratumor vascularization, the size of the uterus was normal and the ovaries weren’t visible. Computed tomography (CT) revealed a large abdomino-pelvic mass measured 30 cm × 40 cm with a fat component, leading to the diagnosis of ovarian teratoma (Figure 1). The CA125 was negative.

At exploratory laparotomy, we found a large abdomino-pelvic mass of 30 × 35 cm, adherent to the aorta, inferior vena cave and blood vessels. The tumor was composed of multiple fat lobules traversed by fine septas with the involvement of the right ureter. A wide resection was realized whose the macroscopic appearance of the tumor is composed of several lobes of fatty nature measured 40 × 45 cm and weighing 12 kg (Figure 2). In the present case, the histopathologic findings were a tumor proliferation of lipomatous nature associated with loose myxoidfoci; the border of the fragments is lesional concluding a voluminous liposarcoma well differentiated (grade 1) (Figure 3). Her postoperative course was uneventful. The patient was discharged on the 8th postoperative day and referred for radiotherapy after multidisciplinary consultation meeting staff.

3. Discussion

Sarcomas are a rare mesenchymal tumors accounting for less than 1% of all malignant tumors, 10% to 15% are located in the retroperitoneum and are dominated by liposarcoma, which accounts for about 40% - 50% of retroperitoneal sarcoma [1] [2]. Retroperitoneal liposarcoma affects both sexes equally. The average age at diagnosis is around the fifth decade, but the disease may interest all ages [2]. The increase in the size of the tumor and the complacency of the retroperitoneal space explained the asymptomatic character and the large dimensions of these tumors. In our case, the tumor was 30 cm. The symptoms revealing the

Figure 1. Computed tomography (CT) revealed a large abdomino-pelvic mass.
diseases are not specific, retroperitoneal liposarcoma can be diagnosed when they reaching a considerable size or when there is an invasion or compression of the surrounding organs. Furthmore it can be revealed by complication like haemorrhage, intestinal obstruction, perforation or volvulus [2] [3]. However, lipo-
sarcomas that extend retroperitoneally into the female pelvis represent a potential pitfall for gynecologists, who can misdiagnose them as adnexal masses [4]. The abdominopelvic ultrasound may confirm the diagnosis in 30% to 50% of the cases. Computed tomography allows for differentiation between well-differentiated liposarcomas and other tumour types on the basis of higher fat content, the presence of thick septas separating fat lobules and the absence of calcifications. Magnetic resonance imaging specifies the characteristics of the masses and may also be useful in the detection of recurrences and metastases [5]. Only the anatomopathological examination of the piece of resection tumorale allows confirming the diagnosis and making more accurate classification of the histological type of the tumour. Several histological varieties of increasing malignancy have been described. Well differentiated liposarcoma, myxoid liposarcoma, pleomorphic liposarcoma, round cell liposarcoma and dedifferentiated liposarcoma. Well differentiated and myxoid types are characterized by a low degree of malignancy though they have a tendency to recur locally (30%). Liposarcomas with a high degree of malignancy are of the pleomorphic and poorly differentiated types. In these cases, the clinical course is much worse and metastases to the lungs are observed in 80% - 90% of cases [6] [7]. The large excision of the tumor, with the viscera it invades, in monobloc is the reference treatment. Adequate resection margins are necessary for recovery. Complete resection is possible in 40% - 60% of cases of retroperitoneal tumours. Recurrences are observed in 15% - 36% of cases and have been described even after periods of over 10 years and up to 30 years. Liposarcomas are among the most radiosensitive of the sarcomas and radiotherapy (60 - 70 Gy) may be applied before, during or after surgery [8]. Thus, overall survival is estimated to be about 50% at five years and about 39% at ten years [9].

4. Conclusion

Our case shows some peculiar characteristics of giant retroperitoneal liposarcoma in a 36-years-old female measuring 30 × 35 cm, initially diagnosed as an ovarian tumor, based on clinical and radiologic findings. However the surgical resection is the only therapeutic way that can confirm the diagnosis and provide a concrete perspective of care. The place of radiotherapy and neoadjuvant chemotherapy is being evaluated. Gynecologists should be familiar with pelvic retroperitoneal liposarcomas and their treatment, and should pay a special attention to fertility preservation when treating young patients.

References


