Giant abdominal metastasis from cardiac liposarcoma

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DESCRIPTION

The patient was a 58-year-old man. His history began 6 years before the admission to our hospital because of a syncopal episode. MRI showed a 2 cm lesion at the confluence of the left pulmonary veins. It was surgically removed and the histopathological diagnosis was of ‘pleomorphic liposarcoma’. The postoperative course was regular.

Since the patient lived in a rural area, he was not treated in a high-volume reference centre for sarcoma and follow-up was not managed by a dedicated multidisciplinary team. Three years later, for the onset of an intestinal occlusion, he underwent emergency laparotomy. An ileo-ileal invagination due to a little ileal lesion was treated with a 30 cm intestinal resection. The histopathological response was again of liposarcoma. Chemotherapy was not performed.

One year later, a thoracoabdominal CT scan showed a heart recurrence and an enormous abdominal mass involving many ileal loops with intestinal subocclusion. The patient was evaluated in a reference centre for sarcoma and he was deemed inoperable.

Because the symptomatology progressively worsened with continuous episodes of melena and severe anaemia, he showed up at our emergency department in extremely critical condition. Thoracoabdominal CT scan confirmed both abdominal and cardiac recurrences (figure 1). An emergency life-saving surgery was attempted. The giant mass of 30×32×35 cm was removed en bloc with 1 m of ileal loops and the descending colon (figure 2). Histopathological diagnosis was of high-grade dedifferentiated liposarcoma with MDM2 gene amplification. Previous histological specimens were reviewed, and it was concluded that this liposarcoma, although being more aggressive, had the same characteristics of the former two. The patient was discharged 17 days postoperatively in fair general conditions, but the cardiac relapse was judged unsuitable for surgery.

The patient was submitted to chemotherapy with trabectedin. His conditions remained stable for 1 year until the cardiac recurrence determined more and more frequent episodes of severe arrhythmia.

Patient’s perspective

My husband was deemed inoperable in a sarcoma reference centre and we arrived at this emergency surgery unit in desperate conditions. Both my husband and I were convinced that there was nothing more to do. I would like to thank the surgeons who took the risk of operating on my husband in such conditions. It allowed us to live one more year together. I hope that my husband’s case, dealing with what I understand is a very rare cancer, could serve as a lesson for surgeons.
An abdominal CT scan revealed a small abdominal relapse, but this time, surgery was not performed for the cardiac condition. Death from cardiac arrest occurred 14 months after his last operation. 

Liposarcoma is the second most common soft-tissue sarcoma. It occurs mostly in the limbs and retroperitoneum, while the heart is an extraordinary rare localisation. It is difficult to establish the origin of liposarcoma in this patient, but, since the cardiac tumour revealed itself 4 years before the abdominal one, it was speculated that the primary tumour was in the heart. Although cardiac metastasis of liposarcoma, though extremely rare, are well documented, abdominal metastases from cardiac liposarcoma are truly exceptional. To the best of our knowledge, this is a unique case of abdominal metastasis from cardiac liposarcoma with a very long survival: 7 years from the heart operation and 4 years from the metastasis’ appearance. Moreover, this is the second case of an ileo-ileal invagination caused by bowel metastasis.

Surgery is the only effective treatment for liposarcoma. A 14-month survival in a patient with both cardiac and abdominal recurrences should encourage surgeons to adopt an aggressive approach even in apparently untreatable cases.

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