Case report

Giant gluteal lipoma surgical management

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SUMMARY

Surgical treatment of lipomas is typically only considered when they are painful or unsightly. We present the case of a massive hip lipoma; with this extreme case, we show that the global prolongation of life expectancy can lead to other indications of removal.

BACKGROUND

Lipomas are benign and common soft-tissue tumours with many different clinical presentations. Surgical management can sometimes be tricky, and surgeons must keep in mind the potential risk of malignancy with large tumours.

CASE PRESENTATION

We describe the case of a 90-year-old patient with a giant gluteal lipoma having evolved over more than 20 years. The patient was well aware of this slow-growing painless mass on his right hip but refused any treatment. He was addressed to our surgical consultation by his family doctor for lameness and unbalanced walking. (figure 1A, B).

INVESTIGATIONS

Even though a benign lipoma was clearly suspected, a CT scan was performed. However, the lesion was so large that it could not be scanned entirely (figure 2). The tumour-like lipoma seemed to be in contact with the sacrum, the tuber ischiadicum and the greater trochanter. Furthermore, there was a suspicion of an infiltration of the flexor’s muscles of the right leg. Vascularisation of the lipoma was mainly provided by an enlarged superior gluteal artery.

OUTCOME AND FOLLOW-UP

The pathology report confirmed that the tumour was benign. Skin was preserved in order to allow a functional reconstruction of the gluteal region. Wound management was simple, and follow-up was unremarkable. Additionally, the patient received intensive physiotherapy for walk recovery and after 5 weeks he could achieve completely independent walking.

DISCUSSION

What makes this case interesting is the fact that even a benign pathology such as a lipoma progressed into a situation requiring delicate surgical management, both due to the technical aspect of the operation itself, and because of the patient’s advanced age.

With no difference in prevalence across genders and a 40–60 years old average age, lipomas are the most frequent benign soft-tissue tumours. Whether isolated or multiple, congenital or post-traumatic, lipomas are frequent in our daily routine; some studies mention the genetic implication in more than 50% of them. Even with minimal risk of malignant evolution, the first step of imaging should be ultrasonography, sometimes associated with MRI for large or deep tumours. Various treatments can be suggested for mechanical or aesthetic concerns. Surgery is the most appropriate treatment, associated with other techniques (suction, soft-tissue reconstruction, flap and so on).
Various pathologies imitating lipomas, such as lipomatosis or lipodystrophy, should be distinguished from it.7 The WHO gives a standard classification for all types of lipomas.8

Giant lipomas are above all aesthetic concerns but in advanced form a functional problem.8 Benign tumours with low risk of malignant evolution.8 Surgery as if aesthetic or functional disorders.8

Learning points

► Giant lipomas are above all aesthetic concerns but in advanced form a functional problem.
► Benign tumours with low risk of malignant evolution.
► Surgery as if aesthetic or functional disorders.
► The transformation of a large lipoma (>10 cm) to a liposarcoma is rare.

Table 1  Largest giant lipomas in French/English-language literature (>10 cm and >1000 g)

<table>
<thead>
<tr>
<th>Reference</th>
<th>Year</th>
<th>Localisation</th>
<th>Pathology</th>
<th>Size (cm)/weight (kg)</th>
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<tbody>
<tr>
<td>Current case</td>
<td>2017</td>
<td>Gluteal</td>
<td>Unknown</td>
<td>30×60/20</td>
</tr>
<tr>
<td>Emegoak et al9</td>
<td>2017</td>
<td>Lower limb</td>
<td>Unknown</td>
<td>22×17/17</td>
</tr>
<tr>
<td>Mascarenhas et al11</td>
<td>2017</td>
<td>Gluteal</td>
<td>Liposarcoma</td>
<td>17/17</td>
</tr>
<tr>
<td>Guler et al1 13</td>
<td>2016</td>
<td>Back</td>
<td>Unknown</td>
<td>38×22×21/3.575</td>
</tr>
<tr>
<td>Grimaldi et al14</td>
<td>2015</td>
<td>Back</td>
<td>Lipoma</td>
<td>36×40×24/5.75</td>
</tr>
<tr>
<td>Dabloun et al15</td>
<td>2015</td>
<td>Back</td>
<td>Unknown</td>
<td>25×25×18/18</td>
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<tr>
<td>Silistrelli et al16</td>
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<td>Back</td>
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<tr>
<td>Martin et al17</td>
<td>1928</td>
<td>Neck</td>
<td>Unknown</td>
<td>??×12.5</td>
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<tr>
<td>Brandler et al18</td>
<td>1894</td>
<td>Back</td>
<td>Unknown</td>
<td>??×22.7</td>
</tr>
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</table>

? represents that other authors did not provide a number for this specific information.

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