Lumbosacral plexopathy due to dermoid cyst of the greater omentum

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Summary: We describe the case of a 66 year old woman with a lumbosacral plexopathy secondary to the compression produced by a dermoid cyst of the omentum, a complication not previously reported.

Introduction

The trajectory of the lumbosacral plexus makes it liable to compression on direct invasion by many tumours, although such involvement is not a frequent finding. Lumbosacral plexopathy secondary to compression by a dermoid cyst of the greater omentum has not been described previously.

Case report

A 66 year old woman was admitted in July 1979 for distal weakness of the right leg of 3 months duration. For the last 6 months, the patient had also suffered pain and paraesthesias of the lateral aspect of the right leg. At 54 years old, she had transitory right sciatica and an operation of unknown type had been carried out in the lumbar region. On examination, muscle power of the right leg was reduced in flexors and extensors of the foot, flexors of the knee and gluteus medius. There was atrophy of the right vastus medialis, and atrophy with erythrocyanosis and coldness of the right leg. The sweat test with subcutaneous pilocarpine showed reduction of sweating on the anterolateral aspect and the dorsum of the right foot. The right Achilles tendon reflex was absent and there was hypoesthesia to touch and temperature in the anterolateral aspect of the right leg. On rectal examination the pouch of Douglas was found to be occupied by a tumour.

Routine laboratory tests including cerebrospinal fluid were normal. An electromyogram revealed a reduced recruitment pattern upon maximum activity with some fibrillations at rest in the right quadriceps femoris, tibialis anterior and gastrocnemius, but no abnormality in the right biceps femoris. Sensory and motor conduction studies of both tibial nerves were normal. Radiological studies of the lumbar spine showed advanced multilevel disk degeneration with marked osteophyte formation; however, there were no abnormalities on myelography with metrizamide. A mass in the lesser pelvis with calcification which looked like a tooth was seen on a plain film of the abdomen (Figure 1), on barium enema and on an intravenous pyelogram; abdominal echography gave similar findings.

At operation a cyst of the greater omentum measuring $8 \times 6 \times 6$ cm was found, embedded in the lesser pelvis. The left ovary was atrophied and the retroperitoneal space was normal. Macroscopically it was a cystic tumour which contained sebaceous material, with a solid area in which there was a well-developed tooth. On histological examination, the wall of the tumour consisted of dense collagenous tissue lined with flat stratified epithelium, in the centre of which ovarian stroma was identified. The pain and paraesthesias disappeared after the operation; 6 years later, the above-mentioned deficits remained unchanged.

Discussion

The signs and symptoms found in our patient suggest either a right L4-S1 radiculopathy or lumbosacral plexopathy. There were severe dysautonomic segmentary vascular and cutaneous phenomena which indicated that the lesion was sited at post-foraminal level in the plexus. As was to be expected, the dermoid cyst of the omentum was sited in the pre-sacral region of the lesser pelvis and compressing the right lumbosacral plexus. Dermoid cyst of the omentum can be symptomless or present with abdominal pain or

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Figure 1 Plain film of the abdomen demonstrating a mass in the lesser pelvis with a calcification resembling a tooth. There is also evidence of multilevel disk degeneration with osteophyte formation.

References

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