**Bilateral isolated aneurysms of profunda femoris artery**

Aneurismas isolados da artéria femoral profunda

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**Introduction**

First described by Pappas et al. arteiosclerotic aneurysms of profunda femoris are very rare entities. Because of its anatomical position in the muscular fascia and wall characteristics the profunda artery is less affected by aneurismal disease than other peripheral arteries and true aneurysms account for less than 0.5% of all peripheral aneurysms and 1-6.6% of all femoral arteries aneurysms. Bilateral profunda femoris artery aneurysms (BPFAA) are even rarer and without a context of polyaneurysmatic disease few cases are described in literature.

**Case report**

A 72 years old man presented with complaints of acute swelling and pulsatile mass in the proximal left thigh (Fig. 1). On past medical history the patient was a former smoker, had a bilateral inguinal hernia repair, open prostatectomy for benign prostatic hyperplasia and was being treated for arterial hypertension and atrial fibrillation. He denied other comorbidities, history of trauma or needle use in the left groin.

On physical examination there was a large pulsatile and expansible mass in the left medial thigh region. The duplex scan examination showed BPFAA with a large left profunda femoris artery aneurysm (PFAA) CT scan revealed a 6 cm diameter PFAA in the left tight and a right 1.7 cm PFAA (Figs. 2 and 3). No other aneurysms were present at the CT screening.

The patient underwent successful surgical repair with open aneurysmectomy and graft repair with polytetrafluoroethylene (PTFE) interposition on the left side. The right PFAA was maintained in close surveillance (Figs. 4 and 5).

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**Figure 1** Left femoral pulsatile and expansible mass (red arrow).
Isolated BPFAA are extremely rare and asymptomatic most of the time, when symptoms are present, surgical repair is prompt recommended to prevent complications such as femoral nerve and veins compression and aneurysm rupture with great risk of limb loss. Treatment of PFAA is safe maintains profunda artery function, eliminates the presence of compressive neurologic signs and reduces deep venous thrombosis risk.

Conclusion

References