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Multiple Aneurysms in Behcet's Disease, Revealed by a Pulsatile Crural Mass Chemlal M¹, Zahdi O^{2*}, Bakkali T², Hormat-Allah M², Lamliki O¹, Berrouine S¹, Idrissi H³, Cherti M¹, Nassar I³, Bensaid Y²

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	Abstract: Aneurysm or pseudoaneurysm is the main vascular complication of
*Corresponding author	Behcet's disease. Nowadays we have both open and endovascular treatment. We
Zahdi O	report a case of Behcet's disease femoral artery false aneurysm combined with a
	thoracic aortic aneurysm. The patient underwent a surgical repair. And follow up
Antiala History	for a second aneurysm repair later. For vasculo-Behcet's disease, we suggest
Article History	
Received: 15.10.2018	performing the operation during the stable period. At the same time,
Accepted: 25.10.2018	glucocorticoids could be used with immunosuppressants preoperatively and
Published:30.10.2018	postoperatively.
	Keywords: Behcet's disease, Aneurysms, Corticosteroid therapy.
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10.36347/sjmcr.2018.v06i10.032	INTRODUCTION
10.30347/sjille1.2018.v00110.032	
	Behcet's disease is generally defined by oral and genital ulcers and
	uveitis. It is also known as a recurrent multisystemic and inflammatory disease. It
	is mostly seen in Mediterranean countries and the Far East.
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A 3324-46	The aetiology of Behcet's disease is associated with viral, toxic,
	bacterial and immunological factors. It was defined in 1963 as an auto-immune
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	disease caused by auto-antibodies against the oral mucosa [1]. Vascular
	involvement is 7 to 38% and it is usually seen in patients between the ages of 20
	and 40 years [2]. Behcet's disease is a non-specific arterial and venous vasculitis.
	Aneurysm or pseudo aneurysm is the main vascular complication of
	Behcet's disease.
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Most hospitals adopt endovascular treatment. Proximal and distal anastomotic aneurysm formation after surgery is not rare one to 12 months postoperatively. Recurrent surgical interventions increase the risk of mortality and morbidity [3].

CASE REPORT

A 32-year-old Moroccan patient was admitted to our hospital in Mai 2018, due to a painless pulsatile mass in the right thigh.

The history of the patient revealed a Bechet's disease, treated by prednisolone, 1 mg/kg. The examination revealed a pulsatile mass of 50 mm that was diagnosed as a right common femoral artery pseudo aneurysm by Doppler ultrasonography.

CT angiography revealed a 35x40 mm pseudo aneurysm of common femoral artery with a small aneurysm of suprarenal abdominal aorta. He was scheduled for open surgical repair of femoral artery using reverse saphenous vein graft. Before surgery, the patient received corticoides bolus and cardiac examination including echocardiography

The cardiac examination found a diastolic murmur of aortic insufficiency, echocardiography found an image of dilated aorta with a suspected aneurysm in the aorta or the pulmonary artery.

We completed the examination with an CT angiography that found an aneurysm in the aortic arch that mesured 62 mm. Then he was transferred to internal medicine department; Post-operation, prednisolone 1 mg/kg with immunosuppressive drugs were continued

The surgery of the aortic aneurysm could be scheduled months later, depending on the follow up; since there is no signs of emergency and the patient are getting well with corticosteroids and immunosupressive drugs.

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Fig-1(a-b): CT images showing a false aneurysm of the right commun femoral artery



Fig-2: false aneurysm of the inferior wall of the aortic arch



Fig-3: peroperative view of the femoral false aneurysm

DISCUSSION

Arterial involvement has been reported in patients with Behçet's disease which mostly involves

the main arteries in the form of pseudo-aneurysms, aneurysms, occlusion and thrombosis . Large vessel involvement is seen in up to 40% of BD patients [4].

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Peripheral as well as main arteries can be involved, as well. The most affected sites reported for arterial aneurysm were the aorta, pulmonary, femoral, popliteal and carotid arteries.

There have been reports a similar case of involvement of the common femoral artery in the form of pseudoaneurysm in BD associated with pseudoanevrysm of thoracic aorta in a chinese women, who infortunatly died 1 month after surgery [5].

The treatment of vasculo-Behcet's disease includes medicine and surgery. Corticosteroid therapy and immunosuppressive drugs have been used for BD. Cyclosporine, azathioprine, anti-tumor necrosis factor (TNF) agents, applied drug control BD in the active phase is the foundation of surgery [6]. Although endovascular procedures are less invasive than open surgery, stents or stent grafts may provoke inflammation, and mechanical irritation could contribute to the recurrence of pseudoaneurysm after endovascular treatment [7].

In our case, the patient presents the association of the aneurysm of femoral artery, abdominal and thoracic aorta but only the pseudoaneurysm of fermoral artery was operated soon because of its severity; the other aneurysms are followed up, to prevent postoperative inflammation since there is no life threatening conditions.

CONCLUSION

Vascular involvement is one of the major causes of morbidity and mortality in BD: Behçet's

aneurysm has the tendency to multiply and can involve any arteries; referring to our case; in the aneurysm of thoracic aorta was accidentally discovered, we suggest looking for all kind of vascular lesions in the medical follow up of Behcet's disease.

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