A RARE CASE OF BASILIC VEIN ANEURYSM

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ABSTRACT
Venous Aneurysm is a very rare entity. Very few have been reported in the vascular literature. They most commonly present at the popliteal vein, or internal jugular vein. Many are asymptomatic, and a few present with pain, swelling or compression on the nearby structures. There is also a risk of thrombus formation and embolisation of the thrombus. We present a rare case of Basilic vein aneurysm, for which surgery was performed.

Keywords: Basilic Vein, Venous Aneurysm

INTRODUCTION
Venous Aneurysms are very rare. Popliteal Vein is the commonest site and women above 45 years are commonly affected (Sessa et al., 2000). This is the first case of Aneurysm of the Basilic Vein described in the literature. Internal Jugular vein is the other common vein to develop an aneurysm. Here we have presented a rare case of Basilic vein aneurysm.

CASES
A 21 year old male patient presented with swelling and pain in the right arm for one year duration (Figure 1). There was no history of trauma or fever. He had no other complaints. Pain was continuous and dull aching in nature. There was no hand swelling, numbness or paresthesia.

Figure 1: Swelling RT Arm (Basilic Vein)
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On Examination: There was a swelling in the Right arm, medial aspect. It was 3x4cm, soft in consistency, not warm or tender. It was compressible and was not pulsatile. Distal pulses were normal and there was no distal neurological deficit. Duplex Ultrasound was done which confirmed a Basilic Vein Aneurysm (Figure 2).

Procedure: Under Supraclavicular block, Incision was made over the dilated vein, Proximal and distal controls were taken and the vein was excised after separating from the medial cutaneous nerve of arm. Hemostasis was well secured and closure done (Figure 3). Post operative period was uneventful and a review in 3 months was absolutely normal.

DISCUSSION
Venous Aneurysms are very rare. Popliteal Vein is the commonest site and women above 45 years are commonly affected (Sessa et al., 2000). This is the first case of Aneurysm of the Basilic Vein described in the literature. Internal Jugular vein is the other common vein to develop an aneurysm. However Portal vein Aneurysm (Purandath et al., 2011) and Posterior Tibial vein Aneurysm (Roberto et al., 2010) have also been published. They have been associated with Neurofibromatosis type 1 (Mirko et al., 2011) and also with Masson's Intravascular hemangioendothelioma (Majdi et al., 2011). The Basilic vein is a large superficial vein of the upper limb that helps drain parts of the hand and forearm. It originates on the medial side of the dorsal venous network of the hand and travels up the
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base of the forearm, where its course is generally visible through the skin as it travels in the subcutaneous fat and fascia lying superficial to the muscles.

As it ascends the medial side of the biceps in the arm proper, the basilic vein normally perforates the brachial fascia (deep fascia) above the medial epicondyle, or even as high as mid-arm. Then around the lower border of the teres major muscle, the anterior and posterior circumflex humeral veins feed into it, just before it joins the brachial veins to form the axillary vein.

Patients have also presented with Recurrent Popliteal vein aneurysm (Garietta and Mohammad, 2010; Antonios et al., 2010) and surprisingly spontaneous regression of a Portal vein Aneurysm has been published 1. Venous aneurysms present with pain, swelling or compression on nearby vital structures. They also present with intraluminal thrombosis and pulmonary embolisation. Belcastro et al., (2000) describe Infiltration, rupture and thrombosis of an IJV Aneurysm associated with Neurofibromatosis Type 1.

Lower limb venous aneurysms are commonly detected by Duplex Ultrasound, usually performed for varicose veins. Other Vein aneurysms are detected incidentally by CT/MRI scans. There is controversy regarding size of the vein, to call it an aneurysm. Some authors suggest twice the normal size (MacDevitt et al., 1993), and some suggest three times the normal size (Maleti et al., 1997).

Treatment options are many. Conservative for the asymptomatic venous aneurysm, to surgical options for symptomatic aneurysms. Surgical options include Excision, Aneurysmectomy with Venorrhaphy, and Aneurysmectomy with interposition vein graft or Prosthetic graft. Aneurysmectomy with end to end anastomosis can also be performed. Our patient underwent excision with no untoward complications and we was not on anticoagulants

All authors agree on anticoagulation for aneurysms with thrombosis, or with pulmonary embolisation. Anticoagulation is also advocated for those patients who underwent aneurysmectomy (Roberto et al., 2010).

REFERENCES


