Acroangiodermatitis (AAD) (synonym, pseudo-Kaposi sarcoma) is a term that encompasses 2 different conditions: (1) AAD of Mali, which refers to skin lesions that mainly develop bilaterally on the lower extremities of patients with chronic venous insufficiency and is an extreme form of stasis dermatitis and (2) Stewart–Bluefarb syndrome, which consists of an arteriovenous malformation that mainly affects the limbs of young patients unilaterally. We present a case of a 68-year-old lady with progressive skin lesions on both lower limbs (right > left) as a result of chronic venous insufficiency that became worse after the leg-vein harvest for coronary artery bypass grafting was taken from the right leg. Up to our knowledge this is the first case of its kind to be reported.

**CASE**

A 68-year-old lady, known to have insulin-dependent diabetes mellitus with nephropathy, retinopathy, hypertension, dyslipidemia, and left carotid stenosis status after left carotid endarterectomy presented to our facility with itchy skin lesions over both legs of few weeks duration. Prior to the second follow-up visit, the patient had undergone right leg-vein harvest for CABG and the skin lesions in the right leg progressively increased in size (Figure 1A).

On physical examination, she is an obese lady with multiple well-defined erythematous to violaceous indurated scaly papules and plaques (of variable sizes) with some excoriated papules on both lower legs (more in right leg, at the site of the surgical scar) with varicose veins and bilateral lower limb pitting edema. Mucous membranes, nails, and hair were normal.

Histologic examination from both the legs showed lobular proliferation of small capillaries in a loose stroma with extravasated erythrocytes and a sparse mononuclear cell infiltrate throughout the upper dermis. Interstitial fibroblast cells were slightly increased in number, mainly along thickened and sclerotic collagen...
bundles that were seen adjacent to an area of more pronounced vascular proliferation with hyperkeratosis and mild spongiosis of the overlying epidermis (Figure 1B).

All routine laboratory results were normal. Protein S, protein C, and antithrombin III were normal. Venous Doppler examination of legs showed reflux in the right greater saphenous vein junction and popliteal junction.

The patient was treated with oral erythromycin, which was planned to be increased up to 2 g/d. As the patient could not tolerate high dose of erythromycin, she was put on 1 g/d in the first 6 weeks, then decreased to 500 mg/d for another 6 weeks without improvement. She also received azithromycin 500 mg daily for 3 months with little improvement and subsequent worsening of the lesions. The patient was referred to the physiotherapist for compression therapy. After 5 months of compression therapy, an improvement in the condition was observed, although complete regression was not achieved.

**DISCUSSION**

In 1964, Kopf and Gonzalez first described a condition that they termed as congenital dysplastic angiopathy. One year later, Mali et al. introduced the term AAD to describe peculiar mauve-colored macules and plaques developing on the extensor surface of the feet in 18 patients with chronic venous insufficiency. In 1967, Stewart and Bluefarb and Adams independently reported the same condition described by Mali et al., but this time it was associated with congenital AVM. In 1974, Earhart et al. reported a case associated with congenital AVM and suggested the name pseudo-Kaposi sarcoma because of the clinical and histopathological similarity with early Kaposi sarcoma.

Although the etiology is still unknown, some authors proposed that proliferation of fibroblasts and small vessels is secondary to high perfusion rate in tissues. Additionally, prostaglandin E1 or a heparin-like factor is responsible for the lesion development. A possible role of microtrauma has been suggested.

Other reports showed local increases of vascular endothelial growth factors in hypoxic conditions, which play an important part in angiogenesis. Products released during mast cell degranulation, such as heparin, histamine, and TNF-α, are also responsible for neoangiogenesis by stimulation of the stem cell factor.

Histologic examination usually shows a slight proliferation of endothelial cells with the formation of new thick-walled vessels invested by pericytes, often in a lobular arrangement, in the papillary dermis. Extravasation of red blood cells; hemosiderin pigment deposition; dermal fibrosis; and a superficial perivascular infiltrate consisting of lymphocytes, histiocytes, and eosinophils are additional findings. Small luminal thrombi may be seen.

We considered diffuse dermal angiomatosis in our differential diagnosis because our patient had violaceous plaques mainly on the lower extremities with a history of peripheral vascular atherosclerotic disease. But it was excluded histologically as the process was limited to the papillary and upper reticular dermis, there was some lobular nature to it, and there was associated marked edema—all pointing to the diagnosis of AAD.
ACROANGIODERMATITIS

The absence of proliferation of spindle-shaped CD34+ cells and of vascular slits, which are typical of Kaposi sarcoma, can help in the differential diagnosis with this condition. In pseudo-Kaposi sarcoma, unlike classic Kaposi sarcoma, human herpes virus type 8 is not detected and the endothelial cells are positive for factor VIII.

Color Doppler scan, MRI angiography, and arteriography are useful in detecting chronic venous insufficiency or an arterovenous shunt. Laboratory testing must investigate for alterations of antithrombin III, protein C, protein S, and for the presence of mutations for the thrombophilic conditions lead to the resolution of the cutaneous disease. Medical therapy options are limited. There is one case report of regression of lesions with treatment of oral aspirin with deposition of the leg elevation and compression. Stanozolol and erythromycin have also been used successfully. Their exact mode of action is still unknown, but erythromycin appears to have anti-inflammatory effects, and has shown to inhibit the chemotaxis of leukocytes, monocytes, and eosinophils. However erythromycin was not effective in our patient.

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