

## Research and Report

# A case analysis of satisfactory effect of microcirculation adjustment therapy in elderly patients with right medial leg tissue ischemia accompanied by skin black change

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## Background

There are many cases of amputation due to deep artery infarction of the leg, which leads to walking impairment and related skin blackening. Many cases of amputation have been carried out under circumstances of last resort.

We are analysing a particular case because in this case, despite the blackening of the skin on one lower limb, the amputation of the elderly patient was successfully avoided and she recovered. The summary analysis of this result may be an important reference for the diagnosis and treatment of peripheral

vascular diseases.

## Key words

Allergic vasculitis; microcirculation disturbance; vascular infarction; venous insufficiency

## Case presentation

The patient is a 90-year-old female Han Chinese. The inner skin of the right lower limb turned black, accompanied by rough skin for more than two months, and there is not limb movement disorder. The patient reported that he had visited two municipal hospitals and was diagnosed with lower limb artery

obstruction and recommended amputation treatment. she was treated with infusion in the hospital of Traditional Chinese Medicine, but there was not significant change in his condition. The patient felt itchy in the focus area of the right leg for more than 2 weeks. A year ago, similar to this outbreak, the inner skin of the left lower limb turned black, and she reported that he recovered after vascular surgery.

The patient is allergic. Physical examination revealed clear consciousness, fluent speech and free movement of limbs. The skin inside the right leg is rough, black and hard, and there are scattered allergic papules around the lesion.

### **Treatment**

Maizhiling Pian, Maiguan Fukang Pian and Vitamin C were taken orally daily for one and a half months, and Ethacridine Lactate Solution was applied externally to the lesion area.

### **Outcomes**

After consultation with microcirculation experts and vascular experts, it was cured by oral and external application of drugs.

After the above treatment, the skin color of the diseased area of lower limbs

gradually returns to normal color, as shown in Figure 1-4. skin induration gradually dissipated from the periphery to the center of the lesion, allergic skin papules disappeared, and the patient's sensation in the lesion area returned to normal.

### **Diagnosis**

1. Allergic vasculitis
2. Local skin inflammation and infection
3. Local tissue microcirculation disturbance
4. Incomplete deep vascular infarction

### **Discussion**

The deep arteries and veins of the lower legs of human body are connected with the shallow arteries and veins. The blackening of the corresponding skin segment caused by the complete infarction of the deep great artery or vein often indicates the possibility of severe ischemic necrosis of the lower leg tissue and surgical amputation.

This case suggests that there may be other indications for the skin darkening of the lower leg. For example, incomplete occlusion of deep great blood vessels in the lower leg, incomplete blood flow blocking between deep vascular network and shallow

vascular network, and circulation disorders that can be reflowable under the use of traditional Chinese medicine for promoting blood circulation and removing blood stasis, and the possibility of reversible skin ischemia aggravated by allergic vasculitis. Minimize the trauma of forced amputation. In this case, amputation of the affected limb is not the only option. The black change of the skin of the affected limb does not indicate the irreversible necrosis of the affected limb tissue, which belongs to a very special clinical manifestation and has important reference value in differential diagnosis.

### **Conclusion**

1. With vitamin C anti-allergy effect is remarkable, making rough skin smooth obviously, allergic skin papules subsided.
2. Maizhiling Pian plays the role of promoting blood circulation and removing blood stasis, improving circulation and microcirculation in deep and shallow leg.
3. Maiguan Fukang Pian improves venous insufficiency.

4. Ethacridine Lactate Solution repaired the inflammation of focal areas associated with allergic skin diseases.

5. Even darkening of the skin does not completely rule out non-amputation treatment. It is of great significance to accurately analyze the feasibility of improving circulation and microcirculation in combination with physical examination methods such as vascular Doppler.

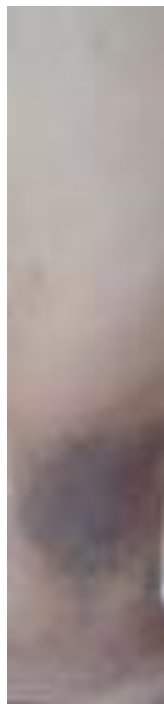


Fig.1 Two and a half months after onset, before internal administration and external application.

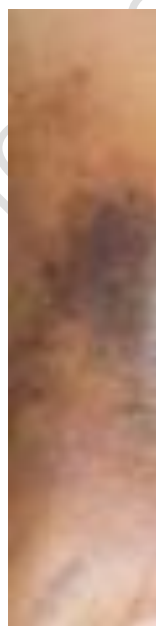


Fig.2 After 10 days of oral and external application, the skin tone becomes lighter and the hard skin becomes softer

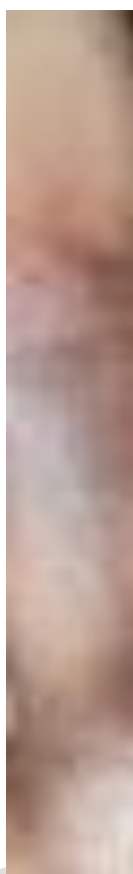


Fig.3 After 22 days of oral and external application, the skin tone becomes lighter and the hard skin becomes softer

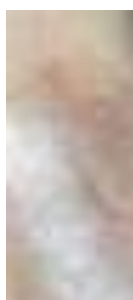


Fig.4 After 43 days of oral and external application, the skin tone becomes lighter and the hard skin becomes softer