COMBINED SURGICAL AND ENDOVASCULAR VENOUS ARTERIALISATION TO TREAT DESERT FOOT

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Combined surgical and endovascular venous arterialisation to treat desert foot

Disclosure

Speaker name:

......................Feng Zhang..........................................................

I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
Critical limb ischemia (CLI) portends a high risk of amputation and death. Revascularization is a mainstay of therapy for patients with CLI.

In 14–20% of the patients who have peripheral arterial occlusive disease, there is not any convenient distal arterial bed for a revascularization procedure. We call it desert foot.

What should the patients have to meet is limb lost—amputation.

At this condition: Don’t forget we have another procedure—Open Surgery—distal venous arterialization.

However, DVA technical failure associated with persistent distal venous valve function. So all the patients underwent intra- and postoperative interventional procedure to breakdown the venous valve.

Anatomy of lower limb vascular
Case Report

• 40yrs old, Male, former smoker, 40 cigarette per day.
• Intermittent claudication for 3 yrs, right side calf cyanosis with severe rest pain.
• Interventional therapy 3 times in past 2 years, but no good result by now.
• CTA show under knees arterial occlusion. ---- desert foot.
Distal venous arterialization
Postoperation sign

• Right lower limb with good temperature,
• Right foot cyanosis disappear
• Right foot severe rest pain
Interventional therapy
Balloon dilation
Follow up

- Rest pain disappear right away. Still have intermittent claudication.
- 6month later claudication disappear.
Other cases

all the patients underwent intra- and postoperative interventional procedure to breakdown the venous valve.
Angiogram after intervention
Wound debridement

Before DVR and intervention

Debridement postop

The blood supply is very good after operation
Even patients have no symptom, we also observe osteoporosis sign in foot X-ray test.
Osteoporosis
Conclusion

• Distal Venous arterialization with endovascular disatal venous valve breakdown is an emergency way to treat desert foot
• Safe, effective
• This procedure is the last hope in no option patients with final failure of arterial system reconstruction.
Thanks for your attention

Are you ready to take on the desert by storm?
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