Frustrating Results of Sclerotherapy and How to Avoid Them

Kasuo Miyake, MD, PhD  - Clinica Miyake, Sao Paulo, Brazil

Disclosure
Kasuo Miyake, MD, PhD

I have a potential conflict of interest: CLaCS Inventor

DEVASTATING Results of Sclerotherapy
1. Death due to Anaphylaxis
2. Death due to Embolism
3. Anaphylaxis
4. DVT
5. Skin Ulcer
6. Matting
7. Pigmentation
8. Treatment Failure

The Role of Injection Pressure, Flow, and Sclerosant Viscosity in Causing Cutaneous Ulceration During Sclerotherapy

Kasuo Miyake
Ted King in memoriam

Phlebology 2012;27:383–389

Hiroshi Miyake's hypothesis [late 60s]:
- venous-capillary sclerosing agent reflux
- Dextrose 75%
1ml Injection of several sclerosing agents in the subcutaneous tissue


Group A: Veins < 0.4mm
Group B: Veins > 0.8mm

Injection pressures:
- 300 mmHg
- 500 mmHg
- 700 mmHg

Reproduction of the Skin Ulcer

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How to Avoid?:
- CLaCS: High viscosity avoids reflux to the arterial system

Search the tag #CLaCS on Instagram!

How to Avoid?:
- CLaCS: it’s a focal treatment

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How to Avoid?:
- CLaCS: transdermal laser causes vein wall edema and contraction

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Hiroshi Miyake. Surgical Treatment of the Telangiectasias
University of São Paulo, 1978

Hiroshi Miyake, MD, PhD 1972

Micro Phlebography

Hiroshi Miyake, MD, PhD 1972

Complex Telangiectasia
double perforant "feeder veins"
How important is Diagnosis?
Misleading Consultation
- No pain
- No edema
- Young athletic
CEAP 1 (LOWEST!)
IDEAL Consultation
Duplex Scan
Augmented reality

SCORE 9 (HIGHEST!)

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How to Avoid?:
- Score 9-1: and then... CLaCS

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