

Aren't TT, NTNT, TNT Equivalent?

• YES – in certain situations

• NO – in certain situations

• MAYBE – in some situations

What's Available?: 20 options (at least)

TT/TNT

RF - 4

MOCA - 3

Laser - 5

Cyanoacrylate - 3

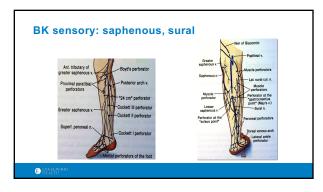
TNT

HIFU

Foam proprietary - 2

Foam "home made - 2





# **BK** - motor and sensory nerves





#### **BK Better Choice: NTNT**

- Axial BK GSV/SSV –retrograde or inframalleolar access
- W periulcer VV
- Tumescence difficult

Avrahami M, Silverberg D, Elias S et al. Inframalleolar access in endovenous treatment of venous ulcers and C5 disease with NTNT procedures. JVS V&L March 2022.

Kim SY et al. Mechanochemical ablation as an alternative to venous ulcer healing compared with thermal ablation. JVS V&L 2019;7:699-705.

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#### Rules To Live By 2024

- · All technologies work
- · More advanced disease, the lower you go
- Treat to the lowest point of incompetence
- Need at least 1 TT and 1 NTNT
- Societies and guidelines endorse NTNT/TT

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The 2022 Society for Vascular Surgery, American Venous Forum, and American Vein and Lymphatic Society Clinical Practice Guidelines for the Management of Varicose Veins of the Lower Extremities. Gloviczki et al.JVS V&L Oct. 2022

- 3.1.1.For patients with symptomatic axial reflux of the great saphenous vein, we recommend both thermal or non-thermal ablation from the groin to below the knee, depending on the available expertise of the treating physician and the preference of the patient. 1B
- 3.1.2.For patients with symptomatic axial reflux of the small saphenous vein, we recommend both thermal or non-thermal ablation from the knee to the upper or mid-calf, depending on the available expertise of the treating physician and the preference of the patient. 1C

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## **Am I Missing Something?**

## NTNT: better patient experience, no nerve injury, BK

 In summary, both thermal and non-thermal ablation techniques are safe and effective, but we cannot recommend one technique over the others. All techniques result in improved QoL scores and good clinical effectiveness 3 to 5 years after the procedures.

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#### **SUMMARY: WHAT TO USE WHEN?**

- SIZE: >8-10mm TT <8 – NTNT or TNT
- LOCATION: AK anything BK NTNT
- TORTUOUS: NTNT (foam)
- SUPRAFASCIAL: NTNT MOCA, MOSCA, INVERSION STRIP/ TUMES NOT GLUE, TT (cord)
- POST SVT: TT, NTNT NOT MOCA/MOSCA

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