



Case Report:

Treating varicose veins on the lower limbs with long pulsed Nd:Yag LASER and sclerosant.

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This is a case report in the form of a white paper by Dr. Rafael Pimenta, angiologist and vascular surgeon from Botucatu, SP, Brazil. Dr. Rafael used the ETHEREA-MX® platform with the LongPulse® handpiece.

Treatment:

- ▶ **Varicose veins in the lower limbs** are dilated superficial veins, with an alteration in the blood flow and direction. Due to the inefficiency of the circulation, a person who has varicose veins may present symptoms such as pain, burning and a heavy sensation. There may be fibrosis formation of the subcutaneous cellular tissue, ulcers and a predisposition for thrombosis.
- ▶ Treatment of varicose veins in the lower limbs varies from reducing symptoms by using compression stockings and medications. But removing varicose veins through a surgical procedure is often the most indicated treatment. This procedure may be done by sclerotherapy, conventional surgery or by use of LASER. Combining techniques frequently optimizes results, reduces risk as well as the number of sessions.
- ▶ Using the 1064 nm LASER has been widely indicated in both telangiectasias as well as larger caliber veins. As the absorption is selective for the hemoglobin present in the veins, effectiveness and safety are guaranteed. The ETHEREA-MX® LongPulse® handpiece has 3 spot sizes which guarantee different penetrations. Allowing the delivery of high energy at different pulse times facilitates the correct choice of parameters for an effective result in different cases of vascular lesions, in both lower limbs and the face.
- ▶ **For this case, treatments were combined using the following parameters:**
Sclerotherapy with foam 0.5% - 10 ml followed by LASER LongPulse®, spot size 6 mm, 40 ms e 70J/cm² with 97 shots.



Image 1: Pre-treatment



Image 2: Post-treatment