



## Case Report:

Treating a frontal vein with long pulse LASER Nd:YAG.

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**This is a case report** in the form of a white paper by Dr. Livia Lyra, angiologist and vascular surgeon from Belo Horizonte, MG, Brazil. Dr. Livia used the ETHEREA-MX® platform with the LongPulse® handpiece.

### Treatment:

- ▶ The treatment of vascular lesions on the face are normally more complicated and must be better evaluated than vascular lesions on the limbs. On the face, for example, using sclerotherapy may cause a reflux of sclerosants to the arterioles, potentially resulting in serious complications such as necrosis in certain areas.
- ▶ Greater benefits from electrocoagulation are described in literature, however, even with this technology, adverse sequelae may appear in the skin due to the low selectivity for blood vessels.
- ▶ Use of the 1064 nm LASER has been largely indicated for photothermolysis, in other words, the selective absorption of light by the hemoglobin and relatively little absorption by melanin, therefore guaranteeing protection of the skin and surrounding tissue.
- ▶ LongPulse® ETHEREA-MX®: Nd:YAG LASER with wavelengths of 1064 nm, with an integrated cooling device. It permits transdermal treatment of veins on the face and limbs, with necessary specificity to guarantee safe results.
- ▶ Three sessions were performed with LongPulse® as follows:
  - Session 1: 6mm spot size, 30 ms and 90 J/cm<sup>2</sup>
  - Session 2: 6mm spot size, 30 ms e 90 J/cm<sup>2</sup>
  - Session 3: 6mm spot size, 20 ms e 80 J/cm<sup>2</sup>



Image 1: Before treatment



Image 2: After 3 sessions of treatment