



Case Report:

Frontal vein treatment with long-pulsed Nd:Y AG laser

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White-paper case report presented by angiologist and vascular surgeon Livia Lyra, from Belo Horizonte, Minas Gerais (MG), Brazil.

Treatment:

- ▶ The treatment of vascular lesions on the face is usually more complicated and should be more carefully considered than the treatment of lesions on limbs. For example, the application of sclerotherapy to the face can lead to a reflux of sclerosants in arterioles, which can cause serious complications such as local necrosis.
- ▶ Increased electrocoagulation benefits are mentioned in literature, but even this technology may lead to the appearance of skin sequelae due to low selectivity among vessels.
- ▶ The use of the 1064 nm LASER has been widely recommended for promoting photothermolysis, i.e., the selective absorption of light by hemoglobin and low absorption by melanin, thus ensuring the protection of skin and surrounding structures.
- ▶ **The Etherea-MX® LongPulse® Nd:YAG laser** with 1064 nm wavelength and integrated cooler. It allows the transdermal treatment of limb and facial vessels, with the specificity necessary to guarantee safe results.
- ▶ Three sessions were conducted using the LongPulse®, as follows:
 - Session 1: 6 mm spot, 30 ms and 90 J/cm²
 - Session 2: 6 mm spot, 30 ms and 90 J/cm²
 - Session 3: 6 mm spot, 20 ms and 80 J/cm²



Image 1: Photo before treatment.



Image 2: Photo after three treatment sessions