ETHEREA Provides Effective Treatment Solution for Leg Veins

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Leg veins before Tx

Leg veins after 1064 nm LongPulse Nd:YAG Tx
Photos courtesy of Luiz Marcelo Viarengo, M.D., Ph.D.

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ETHEREA® from INDUSTRA® (São Carlos, São Paulo, Brazil) is proving to be a very useful tool in aesthetic medicine, as it offers physicians the possibility of safely and effectively treating a plethora of aesthetic indications all from a single platform.

One of the major advantages that the ETHEREA system has over many of its competitors is its expandability of technologies, made possible by simply changing the various handpieces that come equipped with the device. This aesthetic treatment platform features five different, state-of-the-art technologies, one of which is the novel 1064 nm LongPulse® Nd:YAG laser, proven to be very effective in the treatment of vascular lesions of varying sizes.

Luiz Marcelo Viarengo, M.D., Ph.D., a vascular surgeon in Jundiai, São Paulo, Brazil has had the opportunity to use ETHEREA and the 1064 nm LongPulse laser handpiece for more than six months. "This technology has demonstrated very effective treatment of different vascular lesions of diverse sizes and depths. I have often used the handpiece for the treatment of capillary hemangiomas, larger telangiectases and venulectasias in the legs, as well as telangiectatic matting or angiogenic flushing, non-cannulizable vessels and deep reticular veins less than 3 mm in diameter, achieving very positive treatment outcomes."

In the treatment of vascular lesions in aesthetic medicine, there is a trend towards using longer wavelengths that penetrate deeper in the skin and better target deep lying vessels, while sparing the epidermis. Among the technologies currently available, the 1064 nm Nd:YAG LongPulse is viewed by many experts as one of the most effective and efficient options and is considered to be a gold standard technology for non-invasive treatment of superficial venous disease of the lower limbs.

Due to a high penetration depth through skin layers and its directed absorption by hemoglobin, the 1064 nm LongPulse can provide a constant and uniform distribution of energy over the treated area. In addition, longer pulse widths result in an extended heating of the targeted chromophores, which also increases vessel temperature and imminent constriction, involution and closure.

In Dr. Viarengo's opinion, "ETHEREA has proven to be an outstanding device. For the treatment of vascular lesions in particular, the 1064 nm LongPulse handpiece appears to have mastered the perfect combination and relationship between optimal wavelength, energy density and pulse width, ensuring the best results for improved patient satisfaction." Depending on the diameter of the targeted veins, Dr. Viarengo will often combine the 1064 nm LongPulse with other cosmetic vein treatments such as sclerotherapy (aethoxysclerol).

"First, I may inject a sclerosing agent in the target vessels that supply the blood to venous malformations, which results in an involution of those structures," Dr. Viarengo began. "After the injection, I often follow-up with ETHEREA's 1064 LongPulse and perform a few passes over the targeted lesion, as well as over the surrounding veins. This combination therapy can result in a more thorough and complete treatment of the vascular lesion."

The 1064 nm LongPulse is a non-invasive technology offering efficacious treatment, with a few relative contraindications and no reported downtime. This technology offers safe procedures for all skin types without unwanted side effects. According to Dr. Viarengo, treatments with this device result in minimal to no discomfort and are very well tolerated by patients.