



Case Report:

Er:YAG for treating pigmented lesions on the face and neck, resistant to other treatments

Luciana Cegatto Martins Ortigosa, dermatologist
Presidente Prudente, SP, Brazil.

This is a case report in the form of a white paper by Dr. Luciana Cegatto Martins Ortigosa, from Presidente Prudente, SP, Brazil. Dr. Luciana used the ETHEREA-MX[®] platform, with the 2940 DualMode[®] handpiece.

Treatment:

- ▶ The Er:YAG LASER output is strongly absorbed by water (10 times more than CO2 LASER). For this reason, the 2940 wavelength generated is ablative and superficial, allowing for safer treatment in the face and neck regions.
- ▶ The ETHEREA-MX[®] DualMode[®] handpiece allows for combined treatments, with short pulses (μ s) in milliseconds, and double pulse, leading to a deeper penetration of the LASER with a lower risk for hyperpigmentation.
- ▶ Short pulses – in microseconds – known as cold erbium, guarantee pure ablative LASER action, without producing heat.
- ▶ LASER ablation obtained when using DualMode[®] helps treat pigmented lesions. During the healing process, pigment extrusion occurs. In addition to this advantage, as described in literature, ablative LASERS facilitate drug delivery.
- ▶ The patient who was treated reported having pigmented lesions on her face and neck for many years, having had no response to topical treatments. After clinical evaluation, one session of 2940 nm DualMode[®] was performed with drug delivery of retinoic acid 3%.
- ▶ **Parameters used:** Spot size 100 mtz, 300 μ s 10 J/cm² + retinoic acid 3% immediate post-treatment.



Image 1: Result after treatment on the face



Image 2: Result after treatment on the neck