



AS SEEN IN AESTHETIC MEDICAL PRACTITIONER

PICOSURE

THE RELIABLE WAY TO REJUVENATE SKIN

INTERNATIONALLY RENOWNED DERMATOLOGIST AND LASER SPECIALIST DR EMIL TANGHETTI REVEALS WHY PICOSURE IS HIS PREFERRED LASER FOR SKIN REJUVENATION, EVERY TIME.



DR EMIL TANGHETTI

After making its mark on the tattoo industry, PicoSure has set the bar in skin rejuvenation, targeting acne scarring, melasma, actinic pigmentation and photodamage like no other treatment.

Backed by a wealth of clinical studies and research, the PicoSure point of difference is in its proven ability to effectively treat any skin type with less downtime than competitors, showing a dramatic improvement in the appearance of pigmentation, acne scars and collagen-damaging skin inflammation.

PicoSure by Cynosure is a highly versatile and customisable tool for the modern-day practitioner.



Expanding its capabilities into skin revitalisation, it is a widely applicable device, suitable for a broad range of treatment parameters and skin types, backed by clinical studies and some of the world's leading laser specialists.

Clinically proven efficacy

Dr Emil Tanghetti, a leading dermatologist and laser specialist from California, has a passion for clinical research and has investigated a wide range of drugs and devices over the past 20 years. He has recently released a study comparing PicoSure's 755nm laser and an Nd:YAG 532nm and 1064nm picosecond laser with diffractive lens array and flat optics.

The study involved clinical and photographic evaluation of single pass treatments at 15 minutes, 24 hours and 1-7 weeks post treatment.

The clinical results revealed that in comparison to the 532nm and 1064nm picosecond laser, PicoSure's 755nm treatments demonstrated reproducible

results and highly specific areas of epidermal damage, and it was well tolerated on all skin types.

While the 755nm treatments demonstrated reproducible and highly specific epidermal damage, the 532nm and 1064nm wavelengths resulted in relatively non-specific focal areas of epidermal necrosis as well as vascular damage with haemorrhage.

It was demonstrated that the 1064nm wavelength is more attracted to the blood and therefore causes dermal vascular damage with haemorrhage across all MIs (Melanin Index) and skin types. The 532nm is very attracted to melanin and showed epidermal necrosis.

"The 755nm (PicoSure) is the only wavelength that targets more melanin and less blood, allowing more effective treatment, less dermal damage and therefore less downtime. In comparison, the 532nm and 1064nm target blood to some extent, which can cause dermal haemorrhaging and downtime," says Dr Tanghetti. "One of the key things was that unlike the 755nm, the other wavelengths were not suitable for certain skin types."

Among flat optic usage, the 532nm was shown to result in superficial crusting in all skin types, and both 1064nm and 755nm were well tolerated in all skin types.

"With any device you want to understand how the company works in terms of clinical evidence. PicoSure has years of clinical evidence, great studies and a lot of reliable data. Clinical trials are the safest and most efficient way to identify treatments that work. It's disconcerting when other devices don't have this," says Dr Tanghetti.

New possibilities for skin rejuvenation

"PicoSure works very well for tattoo removal, but we didn't initially realise the possibilities it offers for the rejuvenation of the skin," he says. "PicoSure does a lot more than treating the superficial layer. It targets deeper layers to improve collagen and elastin, breaking down pigmentation without damaging the skin. For Asian skin and darker skin types I do not have any problems."

The 755nm creates a confined injury to the epidermis, referred to as an area of Laser Induced

Optical Breakdown (LIOB). In the LIOB reaction, a vacuole is created by high pressure, causing a chain reaction in the dermal architecture and resulting in dermal remodelling.

"The injury in the epidermis generates new collagen and elastin, resulting in the normalisation of pigment, improvement in photodamage, acne scars, and fine lines and wrinkles," explains Dr Tanghetti. "It's the only device we can use on all skin types to trigger collagen production."

Dermal remodelling can typically be seen after only one treatment, and there is usually a marked reduction in fine wrinkling together with a decrease of skin pigmentation. The risk of dyspigmentation is extremely low. The number of treatments will depend on the patient's expectations and also the condition being treated.

"The protocol can differ between patients, however we usually use an 8mm optic and treat the patient 3-4 times for 3-4 weeks," he says.

Not only does PicoSure offer a valuable investment and a range of new possibilities for aesthetic procedures and clinic owners but it also is a highly reputable investment.

"There are multiple reasons PicoSure might be useful in your practice. While there may be a lot of devices out there, the beauty of PicoSure is that it can treat both tattoos and the skin, as well as all skin colours and types," Dr Tanghetti explains.

"We deal with lots of different people and it's a great thing to be able to treat every patient that walks through your clinic doors, no matter what skin type they are." **AMP**

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