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Safety and Efficacy of a Novel, Variable-Sequenced, Long-Pulsed, 532-nm and 1,064-nm Laser With Cryogen Spray Cooling for Pigmented and Vascular Lesions

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"The DermaV system allows adjustment to sub-pulse structures combined with post spray cryogen cooling which really brings the technology to the next level. I highly recommend the DermaV as a vascular laser capable of achieving great results without the typical patient discomfort."

ROBERT WEISS, MD

What's covered in the article?

A novel, variable-sequenced, long-pulsed, 532nm and 1,064nm laser with cryogen spray cooling is the latest generation of vascular lesion and pigmented lesion treatment methods.

Three Key Clinical Takeaways On Reverse

DermaV, a new, variable-sequenced, long-pulsed, 532nm and 1,064nm laser with cryogen spray cooling, is a revolutionary vascular and pigment treatment device.

The objective of the prospective clinical trial was to evaluate the safety and efficacy of DermaV. Subjects were treated with variable sequenced, long-pulsed, 532nm and 1,064nm laser pulses with cryogen spray cooling. Follow-up visits occurred at 1 and 3 months after the last treatment.

Results: DermaV has begun to prove its capability to replicate or exceed the abilities of both the PDL laser and conventional 1,064/532nm lasers, and with greater cost-efficiency. DermaV may represent the future of vascular and pigment laser platforms. 87% of trial subjects reported being very satisfied.

1 Efficiently able to treat pigment, not just vascular

DermaV has been proven to effectively treat both vascular and pigment issues

532nm can treat superficial dermal vessels and improve the appearance of pigmented lesions. 1,064nm can penetrate deeper to target larger vessels, such as leg veins. With simple modifications to the cryogen cooling settings, practitioners can utilize DermaV to effectively treat pigment, a previously impossible task with vascular technology. Compared to its competitors, DermaV is capable of the highest peak power, which enables use of larger spot sizes with effective fluences, making treatments faster and more efficacious.

BEFORE

AFTER 1 TREATMENT

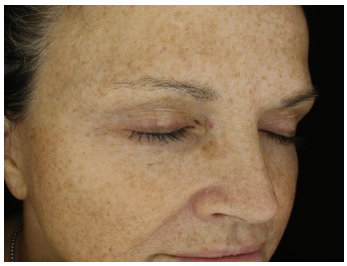
2 Safety, comfort, and flexibility with Cryogen cooling

Cryogen efficiently protects the skin while allowing for treatment flexibility with adjustable settings

2.6 out of 10 mean pain score with the of use cryogen spray cooling means that patients can be treated without topical or general anesthesia, which is a big leap forward, especially for pediatric cases. By varying spray durations of cooling, pre- and post-spray settings, and cooling delay, DermaV provides efficient and automated protection of the skin, enabling the use of more effective fluences, safely. Post spray cooling is an innovative way to more effectively and safely target pigment.

BEFORE

AFTER 3 TREATMENTS



BEFORE

AFTER 2 TREATMENTS

3 Variable sequential pulsing treats vessels of various sizes

VSP can treat vessels of varying sizes with single, submilli, and submicro mode

Vascular lesions are made up of varying vessel sizes and densities, which may respond differently to each particular pulse structure. The DermaV Variable Sequential Pulse modes enable better matching of laser pulse structures to the desired target. Larger vessels generally require longer pulse durations, whereas smaller vessels require shorter pulse durations. When using submillisecond and submicrosecond modes, the user can choose the pulse mode that is most effective.