



SuperSMOOTH® Skin Rejuvenation Using the Fotona SkyWave® 2940 nm Er:YAG Laser

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Introduction:

Fotona's SuperSMOOTH® modality represents an innovative advancement in skin rejuvenation. This hybrid treatment combines the benefits of non-ablative thermal stimulation and superficial ablative resurfacing within a single laser pulse sequence. The treatment integrates a sequence of six sub-ablative SMOOTH® pulses followed by a final micro-short pulse (MSP), creating a synergistic effect that simultaneously stimulates dermal remodeling and provides gentle epidermal renewal.

Deeper thermal action induces neocollagenesis and tissue tightening, while the superficial ablative component improves skin texture, epidermal turnover, and overall skin radiance.

Laser	Fotona SkyWave®
	SuperSMOOTH
Wavelength	2940 nm
Handpiece	PS03S
Fluence	SMOOTH 6 J/cm ² MSP 3.6 J/cm ²
Stacks	1
Delay between pulses	No delay
Frequency	3.3 Hz
Passes	2-3 passes
Cooling	no
Anesthesia	yes
Sessions	3 sessions with 4-week intervals



Dr. Ivana Bogataj Tancer is an aesthetic doctor specialized in ENT and cervicofacial surgery, with a strong focus on advanced laser technologies. She currently works with select clinics throughout Slovenia and serves as an international trainer and expert lecturer for Fotona, educating physicians worldwide in state-of-the-art laser treatments.



Neja Gerdovič holds a Bachelor of Science degree in Cosmetics. During her studies, she gained practical experience with various laser systems for hair reduction and aesthetics. Currently, she is employed at the LA&HA Institute as a laser therapist and assistant, specializing in laser treatments. She also contributes to research projects involving Fotona lasers, further developing her expertise in aesthetic laser procedures.

CLINICAL CASES:

Two female patients presenting with signs of facial skin aging, uneven skin texture, enlarged pores, and reduced skin quality were treated using the SuperSMOOTH® protocol. Treatments were performed with the SkyWave system, using the PS03S handpiece at a wavelength of 2940 nm. Treatment parameters included a 7 mm spot size, SMOOTH® fluence of 6 J/cm², MSP fluence of 3.6 J/cm², one stack, no delay between pulses, and a repetition rate of 3.3 Hz. Two to three passes were performed over the treatment area without cooling. Topical anesthesia was applied prior to treatment.

Three treatment sessions were performed at four-week intervals. Standardized clinical photographs were obtained prior to the first treatment and one month following the third treatment.

The clinical endpoint was uniform visible superficial ablation. Stratacel® (Stratpharma) was applied immediately after treatment. Patients were instructed to use Cicaplast® and broad-spectrum SPF protection during the recovery period.

Both patients reported a transient sunburn-like sensation accompanied by mild erythema that resolved within several hours following treatment. Mild desquamation developed after 2–3 days and persisted for approximately 1–2 days. No adverse events or complications were observed.

Patient 1

A female patient presenting with early signs of photoaging underwent three SuperSMOOTH® treatments. Clinical evaluation at one month after the final session demonstrated visible improvement in overall skin quality, smoother skin texture, reduced appearance of fine periorbital lines, improved skin luminosity, and a more homogeneous complexion. Mild erythema and superficial irregularities present at baseline appeared to be reduced at follow-up.



Patient 2

A female patient presenting with uneven skin texture, enlarged pores, and mild post-inflammatory skin irregularities underwent the same treatment protocol. Clinical evaluation demonstrated improvement in skin smoothness and overall complexion quality. A reduction in visible textural irregularities and refinement of skin surface appearance were observed. The skin appeared brighter and more uniform, with improved overall skin quality while maintaining a natural appearance.

The combination of these mechanisms enables simultaneous treatment of superficial and deeper components of skin aging, resulting in improvements in texture, radiance, and skin quality while maintaining a favorable safety profile and minimal downtime.



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