

Novel Monopolar & Microneedling RF Combo for Multilayer Dermal Rejuvenation

By Lisette Hilton, Contributing Editor

Today's medical aesthetic providers are increasingly turning to combination protocols using complementary energy-based devices (EBDs) to address both structural laxity and surface irregularities. Together, specific EBD combinations can deliver harmonious results.

One combination in particular has yielded impressive results: Volnewmer (known in the U.S. as EVERESSE; Classys, Inc., Seoul, South Korea), a non-invasive monopolar radiofrequency (RF) device equipped with an advanced water-cooling system, combined with Secret RF, a microneedling RF system, offers distinct but synergistic mechanisms of action across different dermal depths, according to Bartosz Pawlikowski, MD, and Marta Walaszek, MD, aesthetic physicians at Klinika Pawlikowski in Łódź, Poland.

"Patients today are looking for more than lifting—they want their skin to feel healthy and regenerated," stated Dr. Pawlikowski. "That's why I often combine Volnewmer and Secret RF. Each targets a different skin layer, and together they create a biologically harmonious result," he continued.

Sequential application of these two modalities induces multilayer dermal collagen remodeling, achieving both deep volumetric tightening and surface refinement within a single, evidence-based treatment protocol.

Mechanistic Rationale

Volnewmer prepares the dermis, according to Dr. Walaszek.

"It thermally preconditions the collagen network, enhances microcirculation and increases fibroblast responsiveness. When Secret RF follows, the tissue reacts more

efficiently, resulting in faster and more uniform regeneration," she explained.

The device delivers controlled deep dermal heating from about 50-60°C, activating fibroblasts and establishing a favorable environment for neocollagenesis. This thermal preconditioning effect may transiently lower tissue impedance, allowing subsequent RF energy from Secret RF to penetrate more evenly and effectively. Secret RF then delivers precise coagulation zones at adjustable depths (0.5-3.5 mm), stimulating wound-healing cascades, growth factor release and sustained collagen remodeling.

"The two steps complement each other perfectly," Dr. Pawlikowski noted. "Volnewmer strengthens the structural foundation of the dermis, while Secret RF refines the surface texture and minimizes pores," he explained. "It is truly a process of rebuilding the skin from the inside out."

Furthermore, Volnewmer's continuous water-cooling technology allows for safe delivery of higher energy fluence while preventing surface overheating. "The epidermis remains cool while the dermis stays therapeutically warm—an optimal physiological window for regeneration," stated Dr. Pawlikowski. "This thermal equilibrium minimizes post-inflammatory hyperpigmentation (PIH) and shortens recovery time, ensuring safety in a range of Fitzpatrick skin types."

Clinical Advantages and Observations

According to Drs. Pawlikowski and Walaszek, the combination of Volnewmer and Secret RF demonstrates high efficacy and broad versatility. "With this combination, we can treat skin laxity, enlarged pores and acne scars within one integrated



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47-year-old patient shown before, immediately after and four weeks post treatment with Volnewmer + Secret RF
 Photos courtesy of Drs. Pawlikowski and Walaszek

protocol,” shared Dr. Walaszek. “The results are progressive and cumulative. The skin becomes firmer and smoother over time, and, above all, it looks natural,” she commented.

Combining Volnewmer’s deep volumetric tightening with Secret RF’s resurfacing effect also generates treatment efficiency. “When Volnewmer improves dermal elasticity and density, the neocollagenesis induced by Secret RF in the upper dermis occurs within a more stable framework,” Dr. Pawlikowski explained. “The outcome is longer-lasting firmness and more uniform texture. With appropriate parameter adjustment, the combination is safe for year-round use and can be maintained every three to six months for continuous improvement,” he added.

The protocol has shown particularly strong outcomes, safety and comfort in patients with mild-to-moderate laxity, atrophic acne scars and enlarged pores, offering a reproducible, patient-friendly solution that bridges non-invasive tightening and remodeling.

The Bottom Line

The combined use of Volnewmer and Secret RF represents a scientifically grounded and clinically validated strategy for multilayer dermal rejuvenation.

By integrating the deep volumetric heating of monopolar RF with the micro-coagulation

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of microneedling RF, this dual-modality protocol promotes comprehensive collagen remodeling throughout the dermal layers, as well as a subtle enhancement of the facial contour.

“Volnewmer’s intelligent water-cooling allows precise delivery of energy deep into the dermis while maintaining complete epidermal safety. When combined with Secret RF, we achieve both structural tightening and surface refinement,” Dr. Pawlikowski shared. “This combination restores the intrinsic texture and elasticity of the skin—and that is what patients appreciate most.”

While clinical studies are ongoing, early findings, according to the company, suggest that this protocol may lead to a new paradigm of intelligent RF synergy, combining safety and efficacy in a well-tolerated treatment.