SCARLET5







It provides direct heat to epidermis and dermis by precise depth control from 0.5mm to 3.5mm. Its efficient radiofrequency offers fractional and continuous treatment patterns.



SCARLETS

The RF Microneedling System

A Revolutionary Solution for Safe **Radio Frequency Skin Treatments**

Scarlet S is the safe treatment in the field of RF systems, with absolutely no downtime and no side effect. It targets virtually any skin issus. Patient can have everyday life immediately after treatment. there is no bleeding or sensitivity as experienced with other microneedle treatments. The technology behind the Scarlet S is guaranteed safe and is CE & FDA approved. The Scarlet S is patented not only in America, but in other countries in Europe, Asia, Middle East, Oceania, and South America.



One Touch and Optimized Tip to Treat Target Area



Shorter Treatment Time and More Patients



Light and Ergonomically **Designed Handpiece**



Simple GUI LCD Touch Screen



Scarlet S Mode







Experience Proven Science, Proven Results with Scarlet S!

- FDA Approved
- US Patented
- International Patented (CA, EA, Asia, etc.)
- Short Pulse RF



L Mode

- Large Pores
- Scar
- Stretch Mark
- Acne and Acne Scar
- Double Chin

F Mode

• Volumetic Tightening and Lifting

B Mode

Sagging Skin on Neck and Body



- No Side Effect
- Less Downtime
- Less Bleeding
- Safe for All Kinds of Skin Type

RF Microneedling System

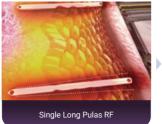
CW(Continuous-Wave RF)

RF energy is continuously irradiated to the tissue over a set conduction time. The temperature of skin tissue rises around 60°c. This sufficeint Energy causes tissue protein denaturation or collagen coagulation, stimulating wound healing process and dermal remodeling.

Treatment Procedure

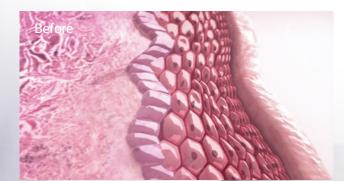








Result





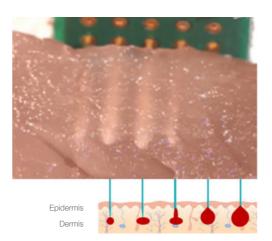
Globally Patented "Na Effect"

Originality of Microneedle RF Technology

Electromagnetic Initiation and Propagation of Bipolar Radiofrequency Tissue Reaction via Invasive Non-Insulated Microneedle Electrodes.

When bipolar RF energy is released through a noninsulated microneedle, tissue coagulation begins at each end of the microneedle electrode. Na Effect shows that tissue coagulation begins at the end of the microneedle electrode, then forms a droplet-shape as conduction time increases, showing less thermal damage on the epidermis.

Comparison with Others : Non-insulated Electrodes

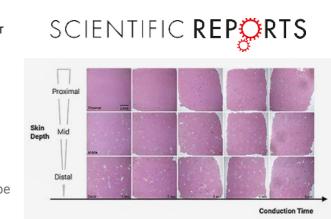


Scarlet S (Non-insulated Electrodes)

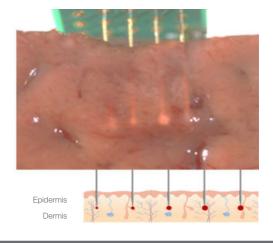
Creates complete coagulation zone as a water drop shape on each electrode covering both epidermis and dermis.

Delivers RF energy to the whole skin layer, it makes complete coagulation with the outstanding treatment effect.

In spite of the non-insulated electrodes, as Scarlet delivers a precise controlled RF energy and immediate coagulation of the whole skin layer, it leads to less bleeding, less pain and downtime.



Horizontal sections of the vivo bovine liver tissue



Others (Insulated Electrodes)

Creates thermal coagulation on the end of penetrating electrodes limitedly causing incomplete coagulation leading to less treatment effect.

The reason of insulating the proximal ends of the electrodes where it contacts to the epidermis is because there is a risk of burns due to lack of precise energy control.

SCARLETS 5



Clinical Results

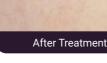
Scarlet S delivers RF energy to the skin through microneedles to treat various skin problems such as acne, wrinkles and scars.

Cheek Acne









After Treatment

Acne scar -



Burn scar -





Chest wrinkles -







Scarlet is a proven product in several papers.



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Electromagnetic Initiation and Propagation of Bipolar Radiofrequency Tissue Reactions via Invasive Non-Insulated

Microneedle Electrodes

Abstract



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Sang Ju Lee

American Society for Dermatologic Surgery



Ji Hun Park

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Kyu Young Seo

Published by KSLMS



Clinical Cases

Clinical Study of Facial Wrinkle Treatment with Fractional Microneedle Radio Frequency System

Author : Hyoung Moon Kim (Miaero Medical Aesthetic Group, Seoul, South Korea)

The Efficacy and Safety of Bipolar Radiofrequency **Treatment with Non-Insulated Penetrating Microneedles for Acne Vulgaris and Acne Scars**

Author: Jongju Na(Department of Anatomy, Soonchunghyang University College of Medicine, Cheonan, South Korea)

Results of Study

Of the 204 patients, 54 had grade 4 clinical improvement, 86 had grade 3 improvement, 50 had grade 2 improvement, and 14 had grade 1 improvement. Mild post-inflammatory hyperpigmentation was found in only two of the 204 patients, which spontaneously resolved within one month.





Marked improvement of periorbital wrinkles in a 48-year-old male patient after two sessions of fractional microneedle RF system treatment. Photos were taken at (A) baseline and (B) two months after treatment





Remarkable improvement of wrinkles along the forehead in a 56-year-old male patient after three sessions of fractional microneedle RF system treatment. Photos were taken at (A) base line and (B) three months after treatment



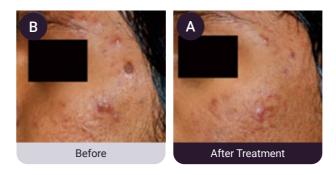


Improvement of wrinkles and sagging along cheek in a 53 year old female patient after two sessions of fractional microneedle RF system. Photos were taken at (A) baseline and (B) two months after treatment.

At two months after the final bipolar RF treatment, clinical assessment revealed grade 1 improvement in 21 (6.6%) of the 316 patients, grade 2 improvement in 78 (24.7%), grade 3 improvement in 133 (42.1%), and grade 4 improvement in 84 (26.6%). Temporary aggravation of acne vulgaris or folliculitis, which spontaneously resolved within three weeks, was noted in 9 patients. Otherwise, no remarkable side effects were recorded.



Marked improvement of periorbital wrinkles in a 48-year-old female patient after two sessions of fractional microneedle RF system treatment. Photos were taken at (A) baseline and (B) two months after treatment.



Marked improvement of acne scarring in a 33-year-old male patient from Saudi Arabia after two sessions of bipolar noninsulated microneedle RF treatment. Pho-tos were taken at (A) baseline and (B) two months after treatment.

Clinical Cases

Results of Study



Marked improvement of acne vulgaris and acne scarring in a 29-year-old female patient from India after two sessions of bipolar non-insulated microneedle RF treatment. Photos were taken at (A) baseline and (B) two months after treatment.



Marked improvement of acne vulgaris in a 21-year-old female patient from Korea after two sessions of bipolar non-insulated microneedle RF treatment. Photos were taken at (A) baseline and (B) two months after treatment.





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