

Radiofrequency with microneedling in facial rejuvenation

INFINI, DISTRIBUTED BY ADVANCED COSMECEUTICALS, COMBINES RADIOFREQUENCY ENERGY WITH SKIN NEEDLING FOR SUPERIOR RESULTS IN MINIMALLY INVASIVE FACIAL REJUVENATION. WORDS BY CAITLIN BISHOP.

The benefits of radiofrequency energy in skin rejuvenation have been widely documented. A thermal response is created within the skin during treatment, which is caused by the resistance of the skin to RF energy. Due to this, tissue coagulation and skin tightening occurs.

The Infini by Lutronic, distributed in Australia by Advanced Cosmeceuticals, takes this technology and focuses it, using microneedles to deliver RF energy at precise depths in the skin. By targeting the energy to the skin's deeper layers, the rejuvenation results are compounded – especially when partnered with the dual benefits of microneedling.

Infini vs monopolar and bipolar RF

Both monopolar and bipolar RF have been reported for the treatment of wrinkles – but the

results are often inconsistent. Bipolar RF involves current passing through the tissue between two electrodes, and monopolar is RF energy projected into the skin from a single source.

Both methods result in sub-optimal tissue warming – somewhere below 65 degrees Celsius. Because of this, they have been shown to lead to limited and inconsistent clinical outcomes.

In comparison, Infini delivers RF energy via insulated gold-coated microneedles to precise depths within the skin. This affords deep and controlled coagulation, giving rise to optimised neocollagenesis.

Treatment practicalities

The insulated gold-coated microneedles mean treatment is suitable for all skin types in any season. The needles help protect the epidermis from thermal damage, and can target tissue more than 3.5mm deep.



The needle depth can be adjusted for a multi-layered approach. This can help in treatment customisation for individual patients, and achieves 3D results in skin rejuvenation.

The Infini system can be used on eyelids, and other facial zones – such as periocular, nose, maxillary, temple, forehead and perioral skin. These zones can be targeted with needles between 0.5 and 3.5mm.

Infini's Comfort Flow Technology administers sequential needle insertion to minimise patient discomfort. Typically, needle depth is set for the first pass across the whole face and neck. Second and subsequent passes can be performed over areas of concern with lower needle depths and various parameters. As the needle depth is reduced, the level and exposure time should also be lowered to avoid secondary thermal damage to the epidermis.

Results with Infini

Infini is touted to induce 3D shrinkage of the target tissue, followed by volumetric changes due to dermal neocollagenesis and elastogenesis.

To test the efficacy and safety of the system, a multicentre study was conducted across various geographic locations and different skin types. It encompassed 499 subjects – 419 females, 80 males and five countries. The mean age was 52.6 years, and the Fitzpatrick skin types ranged between I and V.

All centres reported very good to excellent results, ranging from mild to excellent improvement in even severe wrinkles. Some improvement was noted in every subject, in all centres, and results in the neck were judged better than any other modality.

No persistent side effects were seen after Infini treatment, with no

post-inflammatory pigmentation reported in skin types III-V.

Infini is an innovative, targeted and precise system for skin rejuvenation. Radiofrequency technology is backed by clinical research and, when combined with microneedling technology, can achieve significant skin tightening and wrinkle reduction in a wide patient demographic. **AMP**

For more information visit www.advancedcosmeceuticals.com.au or call 1800 242 011

INFINI USES INSULATED GOLD-PLATED MICRONEEDLES TO DELIVER RF ENERGY AT PRECISE DEPTHS IN THE SKIN



BEFORE



AFTER acne treatment with Infini. Courtesy of Lutronic.



BEFORE



AFTER acne scar treatment with Infini. Courtesy of S. Savant, MD, India



BEFORE



AFTER scar revision with Infini. Courtesy of Devrim GURSOY, MD, Turkey



BEFORE



AFTER skin laxity treatment with Infini. Courtesy of Devrim GURSOY, MD, Turkey