ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

LASERS

SAFETY AND EFFICACY IN DIVERSE SKIN PHOTOTYPES OF A FRACTIONAL BIPOLAR RADIOFREQUENCY DEVICE FOR FACIAL SKIN ABLATION AND RESURFACING: A TEN-YEAR RETROSPECTIVE REVIEW.

Hema Sundaram⁽¹⁾

Dermatology, Cosmetic & Laser Surgery Institute, Medical Director, Rockville, Maryland, United States⁽¹⁾

Background: Fractional bipolar radiofrequency is a chromophore-independent method of delivering thermal energy via a multi-electrode pin array. This device is intended to induce deep dermal heating, ablation and coagulation with relative epidermal sparing. It is US FDA-cleared for fine lines and wrinkles.

Objective: To review ten-year experience of two centers within the same dermatological practice in treatment of Fitzpatrick skin phototypes III -VI with fractional bipolar radiofrequency.

Materials and Methods: 474 consecutive full-face fractional bipolar radiofrequency procedures performed on 139 patients were reviewed via examination of medical charts and standardized digital images; and patient interviews where indicated. Patients were aged between 29 and 62, had received 3 to 6 treatments with moderate energy (60mj/pin) for acne or other scarring, hyperpigmentation, pore prominence, skin dullness, or fine lines and wrinkles. Exclusion criteria included treatment with lasers/energy-based devices, injectables or chemical peels.

Results: All patients experienced mild to moderate erythema lasting hours to 5 days. 23% experienced minimal to mild edema lasting hours to 2 days. Both were expected and self-resolving. There were no long-term complications, including post-inflammatory hyperpigmentation. Global improvement, on a five-point scale, was excellent (76 to 100% better than pre-treatment) in 104 patients by blinded evaluation and 120 patients by self-evaluation; and good (51-75% better) in 35 by blinded and 19 by self-evaluation. Blinded evaluation of pigmentation showed fair improvement (26 to 50% better) in 50% patients, good in 14% and excellent in 36%; good improvement of skin radiance in 50%, and excellent in 50%; good skin tightening in 24% and excellent in 50%. Pore prominence and fine lines and wrinkles also improved.





International League of Dermatological Societies Skin Health for the World







A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

Conclusions: Fractional bipolar radiofrequency appears safe and effective for resurfacing of pigmented skin. It may overcome challenges of ablative laser, including post-inflammatory hyperpigmentation, due to relative epidermal sparing with preferential energy delivery to the deep dermis.



24TH WORLD CONGRESS OF DERMATOLOGY MILAN 2019



International League of Dermatological Societies Skin Health for the World

