Fluorescent Light Energy: Energizing and Normalizing Stressed Skin

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BACKGROUND

- The Kleresca® biophotonic platform combines a multi-LED and a chromophore containing photoconverter gel, together creating fluorescent light energy (FLE). 1
- Kleresca® differs from other forms of light therapy by delivering polychromatic dynamic FLE covering the visible light spectrum, inducing a novel form of photobiomodulation.
- The biophotonic platform has proven clinical efficacy in treating inflammatory skin conditions,2-6 rejuvenating the skin as a stand-alone treatment,6 or pre-post other more invasive procedures.2
- Here we sought to investigate some of the key mechanisms underlying its efficacy.

RESULTS

FLE Decreases Inflammation and Improves Skin Texture

FLE Increases Collagen Production from Human Dermal Fibroblasts - A Response Blocked in the Presence of Inflammation

CONCLUSIONS

- Enhanced fibroblastic collagen production, attenuation of the inflammatory signature of connective tissue cells and the promotion of angiogenesis all contribute to the de-stressing and normalizing properties of fluorescent light energy.
- FLE effectively targets inflammation in acne and rosacea and offers support in these conditions by improving the skins overall texture and the appearance of scars. Furthermore, it has been used in combination with more invasive cosmetic procedures for an enhanced effect.