

May 30, 2023

KOREA DERMA ABSTRACTS

Dr. Werschler Presentations

*Title: Facial Sculpting with a Novel Picosecond Fractional Laser*

This presentation summarizes our work to date investigating the clinical efficacy of a novel picosecond laser featuring a unique fractional handpiece enabling the ability to selectively control the depth to which the laser's fractional picosecond 1064nm energy is directed via a three-position control ring incorporated into the handpiece. This technology enables selective depth creation of Laser Induced Optical Breakdown (LIOB) micro wounding in the deep dermis (level I), upper dermis (level II), and epidermis (level III) by selecting the desired level directly on the handpiece. The resulting LIOB vacuoles are believed to trigger the body's wound healing response catalyzing collagen synthesis and remodeling. We found that controlling the depth and intensity of LIOB produced in skin facilitates facial sculpting over a series of 3-5 treatments. Furthermore, we experienced significant depigmentation at the selected depths, improving skin tone and brightness. This presentation includes before and after photographs and commentary summarizing several picosecond laser facial sculpting cases performed in our clinic. We believe we are only beginning to realize the potential of this technology and more research is needed to better understand and harness its full potential.