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Abstract

Complementary strategy for skin rejuvenation using fractionated pulsed radiofrequency and picosecond alexandrite laser

Treatment for skin rejuvenation is one of the most demanded procedures recently. It is necessary to rejuvenate the skin by targeting not only the improvement of skin texture, wrinkles and others, but also pigment removal.
There are many alternatives to achieve these goals, as energy-based devices have been developed. For example, with the development of lasers, the optical characteristics have been utilized to expand treatment indications and improve treatment efficiency. The method of destroying excess melanosome has changed from applying a laser with enough energy to destroy the target during the thermal relaxation time, to applying the laser during the stress relaxation time, which is even shorter than the thermal relaxation time. In actual clinical practice, we feel that this change has necessitated a method of irradiation in which the stress/shock wave generated by the laser is controlled according to the target.
These changes are not limited to lasers alone, and it is becoming clearer which types of energy can be most effectively used. For this reason, it will be necessary to use multiple energy sources to compensate for the weaknesses and achieve a synergistic effect.
In this session, the strategy to get skin rejuvenated with complementary method using fractionated pulsed RF and picosecond alexandrite laser will be shown, with examples of our own experiments.