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Non-Ablative Dermal Remodeling by Soft Laser Peel

非剝除術之柔性雷射換膚應用

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Characteristics of Soft Laser Peel

- No epidermal ablation
- Effective therapy for photo-damaged skin
- Lower risk of prolonged erythema and dermal damage following treatment
- Soft Laser Peel (1,064 nm) irradiation is less well absorbed by water compared with wavelengths such as 1,320~1,540 nm
- Therefore the potential to reach deeper dermis is greater
- Thus, it proves to be better indicative modality for desired laser/tissue interaction

Dermal change by irradiation of Soft Laser Peel

- Collagen shrinkage
- Collagen remodeling
- New collagen formation
- Histologically, a thicker and more homogeneous collagen in the papillary dermis is observed

Rationality for use of Carbon

- The carbon serves as an exogenous artificial chromophore.
- Carbon has an excellent absorbing character for 1064 nm wavelength.
- Cellular damage is localized to the tissue immediately adjacent to the carbon and non-targeted tissue is minimally.

Advantage of Soft Laser Peel

- Convenient and easy to perform
- No scab, pain, bleeding, and infection
- Return to immediate daily activity
- All patients regardless of the color of skin can be treated

Indications for Soft Laser Peel

- Large pore
- Aged skin
- Seborrheic skin (yellow oil skin)
- Fine wrinkle
- Shallow acne scar
- Melasma