

Combination IPL and Non-Ablative Fractional Optics for Skin Revitalization



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STUDY DESIGN

- Four patients in a prospective case series for facial photo-aging.
- Three treatments carried out on all patients, at intervals of one month using the following parameters:

Session 1 – one pass of the Icon™ Aesthetic System MaxG™ IPL handpiece, followed by one pass of the Icon system 1540nm fractional non-ablative handpiece using the XD Microlens™ with settings of 40mJ and 15ms.

Session 2 – one pass of the MaxG handpiece, followed by one pass of the 1540nm fractional non-ablative handpiece using the XF Microlens™ with settings of 40mJ and 15ms.

Session 3 – one pass of the MaxG handpiece, followed by two passes of the 1540nm handpiece using the XF Microlens with settings of 40mJ and 15ms.

MaxG Parameters	Session	Fitzpatrick Skin Type	Skintel® Melanin Reader Index	Pulse Width (ms)	Energy (J/cm ²)
Patient 1	1	II	19	10	28
	2		19	15	26
	3		16	10	34
Patient 2	1	II	14	10	34
	2		15	10	36
	3		15	20	38
Patient 3	1	II	15	10	30
	2		15	15	34
	3		12	15	38
Patient 4	1	II	19	10	24
	2		16	15	28
	3		15	15	32

- Cooling using an ice roller was used in 100% of the treatments.
- Topical anesthesia using LMX4 (4% Lidocaine) was used on 75% of the treatments.

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RESULTS:

- All four patients rated their skin quality as clinically improved for skin tone, texture, and treatment of pigmentation.
- No epidermal injuries were reported.
- Mild erythema was experienced after all treatments which resolved within 24-48 hours following treatment. This was of no concern to any of the patients and managed conservatively with standard clinic post treatment protocols.
- Minimal crusting of pigmented areas occurred for 3 of the 4 of patients at 48-72 hours post treatment.
- Moderate crusting of pigmented areas occurred for 1 of 4 patients at 48-72 hours post treatment but was of no concern for the patient and this resolved with conservative clinic post treatment protocols.



CONCLUSION:

- Combination treatment using the Icon Aesthetic System MaxG IPL (for pigmentation) and 1540nm fractional non-ablative (for wrinkles and other surface inconsistencies) handpieces results in a clinically significant improvement in photo-aged skin with all patients receiving the protocol detailed above.