

## Clinical and experimental findings on new CO<sub>2</sub> fractional/radiofrequency and non fractional ablative treatments in dermatology

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CO<sub>2</sub> laser has not only become the most widely used laser in dermatologic surgical practice but it has also proved to be highly effective in treating aesthetic imperfections. A variety of dermatologic treatments are available for eyelid tightening and facial rejuvenation, such as topical therapy, chemical peels, dermoabrasion, botulinum injection, radiofrequency and laser resurfacing, all with the relative benefits and risks. Nowadays only a few devices combine the effect of radiofrequency with laser or light energy in a unique tool capable of targeting lesions requiring surgical ablation, as well as aesthetical imperfections (fine-lines and rhytides, dilated pores, hyperpigmentations), that have to be reduced or completely removed. Our findings from clinical evaluations and experimental investigations suggest that resurfacing using fractional CO<sub>2</sub> laser (SmartXide<sup>2</sup> DOT/RF, DEKA-M.E.L.A., Calenzano, Italy) with new pulse shape emission integrated with bipolar radiofrequency is efficacious in improving the treatment of patients with various degrees of photodamage and also in reducing downtime. This kind of laser meets the needs of the majority of dermatologists, who require a unique, versatile tool to remove skin lesions and at the same time safely and effectively treat skin imperfections. Moreover CO<sub>2</sub> laser blepharoplasty (SmartXide<sup>2</sup> DOT/RF) with muscles tightening and periorbital skin resurfacing is a safe technique that produces promising aesthetic results and diminishes the complications associated with skin and muscle resection in that area, mainly permanent scleral exposure and ectropion.

### Biography

P Bonan his extensive study, research and assistance activities are documented by his presentation of numerous lectures (and posters) at national and international congresses, and over 100 publications. Over recent years he has been author and co-author of important books and manuals (several with interactive materials) focusing on "Light sources in Dermatology"; Since 2006 he has been appointed member of Continuing Medical Education for Dermatological Physiotherapy, Department of Dermatology and Professor of Master in Cosmetic Dermosurgery, University of Florence; Since 2008 he has been appointed Professor at the Post-Graduate School of Dermatology for Dermatological Physiotherapy, Department of Dermatology, University of Florence.

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