

WHITE PAPER

SmartXide²

# SMARTXIDE² DOT RF

## New Generation Laser - Press Releases

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Bio-Medical University Campus - Rome

**Press release - 11 February 2011**
**RECONSTRUCTIVE SURGERY: NEW GENERATION LASER**

Developed at the University Polyclinic, the first clinical trial with all-Italian technology combining the efficacy of laser with the toning effects of radiofrequency. To be presented tomorrow in the Conference Hall of the Research Centre.

A new laser system that reduces and heals deep scars with amazing clinical outcomes and a drastic reduction in side effects: this is the result of the combination of Italian technology and the experience of the reconstruction surgeons of the Bio-Medical University Campus Polyclinic.

For the first time, technology integrates the abrasive effects of the laser beam with the toning effects of radiofrequency. This is the result of the experience of the Plastic, Reconstructive and Cosmetic Surgery Operating Unit of the University Polyclinic that has been working with the new system for two months.

The result of the pilot study, performed on twelve patients with severe acne scars and one patient who had suffered for years from accident scars on half the face, will be presented tomorrow, February 12th, at a Convention starting at 9.00 am in the Conference Hall of the Advanced Research Centre of the Bio-Medical Campus *(Via Alvaro del Portillo, 21 – Rome).*

**SmartXide²** is the name of this new device which, on the one hand exploits the traditional abrasive function of laser by dilating the capillaries and preparing the skin for permeation by radiofrequency, while on the other it takes advantage of the capacity of radiofrequency to restore skin tone ('lifting'). **SmartXide²** simultaneously exploits the vasoconstriction effect of radiofrequency, opposite to the dilating effect of the laser, countering any possible negative effects of the latter (burn scars, oedema, erythema, white or brown skin spots, and long recovery times).

*"Over two months using this new laser," explains Dr. Stefania Tenna, in charge of the clinical trial at the Bio-Medical Campus, "we treated patients who had tried everything so that they would be happy to look at themselves in the mirror again. We observed significant scar reduction right from the first session and after a week, the laser-induced swelling and skin redness had subsided. Female patients were even able to put on makeup again after a few days."*

The positive remodelling effects on the epidermis demonstrated with this pilot study conducted at the Bio-Medical University Campus Polyclinic will now be used to launch a multicentre trial, increasing the number of patients and pathologies treated.

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## PRESS RELEASE - 14 FEBRUARY 2011 PLASTIC SURGERY: PRESENTATION OF PILOT STUDY ON LASER AND RF

The preliminary data, presented at the Bio-Medical Campus Polyclinic, demonstrate the biostimulating effects of this new all-Italian technology.

Removal of skin imperfections like scars with a simultaneous biostimulating action on the skin: this is the ambitious goal that physicians and laser technology specialists addressed during a conference held on Saturday, 12 February at the Bio-Medical Campus of Rome.

Fuelling the debate were the results of the pilot study conducted by the Plastic, Reconstructive and Cosmetic Surgery Division, directed by Prof. Paolo Persichetti, aimed at assessing the effects of a new, all-Italian technology that combines the use of $CO_2$ laser with radiofrequency to eliminate skin imperfections.

*"After two months of treatment," observes Dr. Stefania Tenna, a Researcher who monitored the patients in the pilot study, "we noticed not only a greater effectiveness of this device compared to fractional laser, but also a recovery of tissue tone, tightening of skin pores and realignment of collagen fibres."*

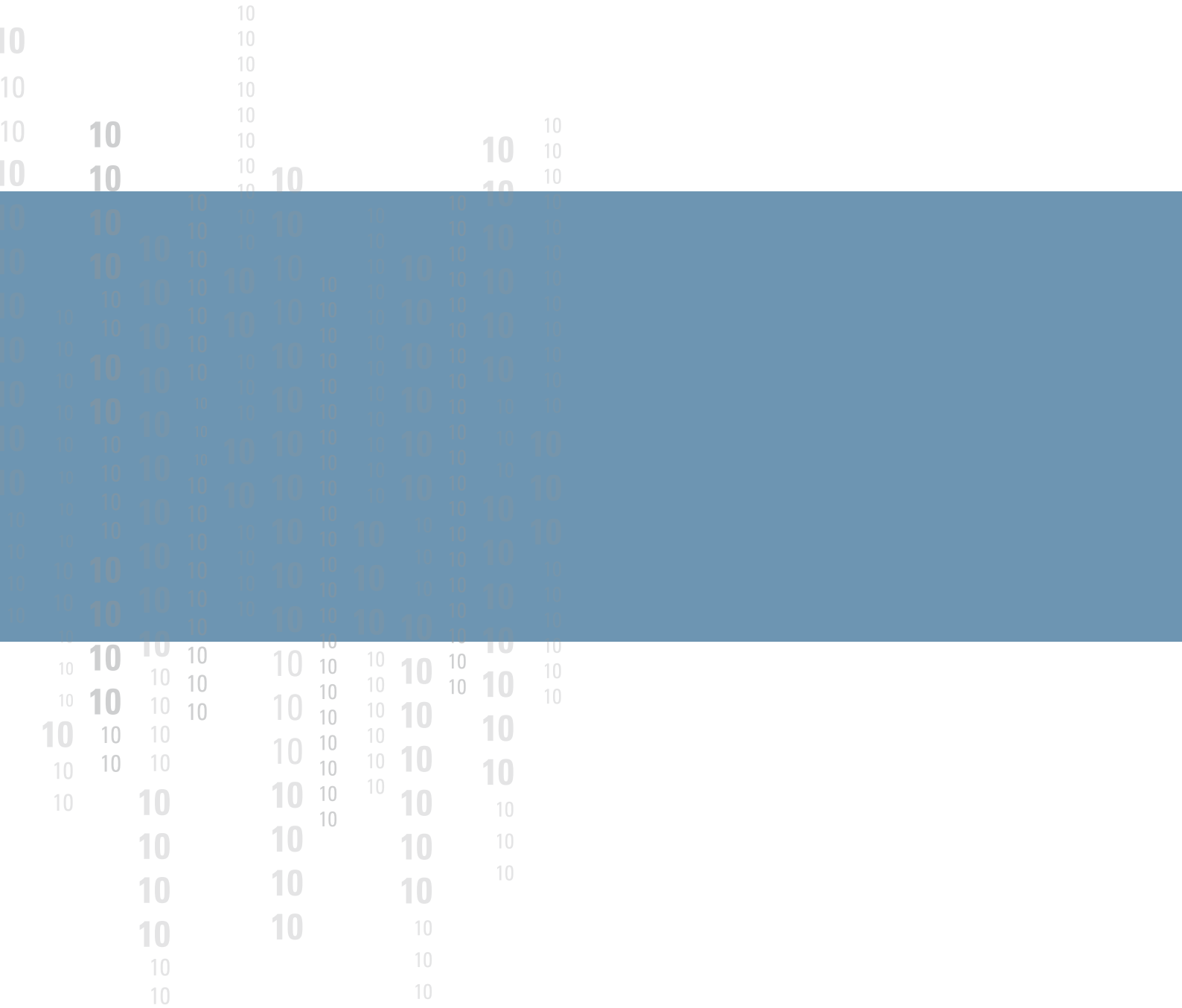
These observations were also confirmed under the microscope by Dr. Norma Cameli, of the Istituto Dermatologico San Gallicano. Overall, the synergy between laser and radiofrequency has made it possible to achieve significant skin remodelling results but at lower energy levels. In short, more effective than fractional lasers but without the serious side effects or long recovery times of the first generation lasers.

*"The problem of $CO_2$ laser," explained Dr. Emanuele Bartoletti, of the Fatebenefratelli Hospital in Rome, "has always been the recovery time of several months, the need for the patient to wear face bandages during the first few days after the operation, and also the risk of undesirable pigmentation. This new method demonstrates significant results, with the advantage of being mini-invasive."*

With **SmartXide²** this is the name of the new device– physicians of the Bio-Medical University Campus Polyclinic have treated patients with trauma and acne scars, with visible effects already after the first treatment.

*"In the outpatient sessions without anaesthesia, we observed a significant reduction of the scarring and one week later the laser-induced swelling and skin redness had already disappeared," pointed out Dr. Tenna, "and we have to remember that the pilot study was restricted to patients previously subjected to other methods without satisfactory results."*

Further to the positive results of the study, a multicentre clinical trial will now be conducted to investigate the possible effectiveness of this new method on other pathologies as well.



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