SmartXide DOT’s Versatility Proves Effective for Skin Rejuvenation

By Ilya Petrou, M.D., Contributing Editor

In today’s market there are a plethora of rejuvenation lasers available – each offering a distinct technology to provide diverse cosmetic treatments to targeted areas. DEKA’s (Florence, Italy) SmartXide DOT CO₂ laser is one cosmetic tool that can target a large spectrum of cosmetic hindrances safely and effectively.

This novel laser is one of the first systems in a new family of fractional ablative CO₂ lasers. The SmartXide DOT features all of the advantages of ablation – one of the most potent stimulators of fibroblasts – and therefore works very well for all epidermal and dermal renewal indications including sun damaged skin, lentigines, acne scars, surgical and achromic scars as well as stretch marks.

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In cosmetic procedures the possibility of calibration, to eliminate significant deviation of the fluence, is of paramount importance. The SmartXide DOT device offers precise calibration, which can minimize the risk of burns with excessive fluence, as well as avoid under treatment and inefficiency.

The SmartXide DOT laser emits a SmartPulse consisting of two parts – a high power peak for rapid ablation of the epidermis and upper levels of the dermis; and a lower power for heating the tissues in depth and providing excellent stimulation for neo-collagen formation. The device’s fractional modality creates a unique thermal damage pattern in which the tissues are heated in columns rather than in layers.

SmartXide DOT’s versatility can be seen when performing traditional CO₂ procedures such as full-face resurfacing (with the scanning system in traditional mode), as well as numerous medical indications including warts, seborrheic keratoses, sebaceous hyperplasia and xanthelasmas.

Dr. Le Pillouer-Prost’s typical treatment with SmartXide DOT takes approximately 10 to 15 minutes for a full-face procedure. By using the DOT mode, downtime is minimal and the ensuing moderate erythema allows the patient to use appropriate make-up immediately following the procedure.

“Among all the devices I have used to achieve a non-ablative remodeling effect, including flash lamps, infrared lasers, non-ablative fractional lasers and other CO₂ fractional devices, the SmartXide DOT device is the first one to provide objective visible results in all of my patients,” said Dr. Le Pillouer-Prost. “The device is easy to use and can be done in an office setting without any need for anesthesia or expensive consumables.”

62 year old patient before Tx

62 year old patient nine months after three sessions (parameters: 30 W, 500 micrometer dot spacing, 1,000 ms dwell time)

Photos courtesy of Anne Le Pillouer-Prost, M.D.