

# Newly Introduced e<sup>2</sup> Tx Provides Comprehensive Skin Rejuvenation

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Before Tx



One month after three treatments  
Photos courtesy of Tess Mauricio, M.D.

Radiofrequency (RF) skin rejuvenation therapy with the eMatrix™ system from Syneron (Irvine, California, U.S.) is now even better thanks to the e<sup>2</sup>™ treatment for combined fractional epidermal and dermal sublative rejuvenation. These two novel treatments not only achieve a deep dermal remodeling and neocollagenesis, but also result in epidermal remodeling.

"With the combination treatment of e<sup>2</sup>, I can now address a complete range of skin rejuvenation concerns with reliable and consistent results," said Lori Brightman, M.D., a board certified dermatologist at the Laser and Skin Surgery Center of New York (New York, New York, U.S.).

Originally, the eMatrix device included the 64 electrode Sublative RF Dermal™ tip, which deposited RF energy into the deeper dermis. The new tip, called Sublative RF Epidermal™ consists of 144 electrodes for a more superficial treatment, thereby targeting the epidermis where the melanocytes reside. "The bi-polar RF energy heats the tissue in the dermis without a specific target, which is unique compared to current laser and light-based technologies that target chromophores," Dr. Brightman noted.

According to Shlomit Halachmi, M.D., Ph.D., and Moshe Lapidoth, M.D., M.P.H., from the laser unit and department of dermatology at the Rabin Medical Center in Israel, the e<sup>2</sup> treatment is unique in that the bulk of effect occurs beneath the surface of the skin with little disruption to the surface. Termed Sublative Rejuvenation, this method of energy delivery has an upside-down effect compared to traditional fractional therapies. "The electrode array used in the eMatrix causes

an inverted effect so that the foci of superficial ablation is minimal and the downtime is low, whereas the zone of dermal coagulation and heating beneath each focus is broad-based for retained stimulative effects on the dermis," Dr. Halachmi explained. The closer-spaced array of the new tip has an additional benefit in that more of the epidermis is treated per pass, more homogeneously," Dr. Lapidoth added.

"Having both tips available allows treatment of the skin at two levels with a single device. One can treat the deeper dermis and then treat more superficially," Dr. Halachmi remarked. This novel versatility in a single device allows physicians to treat a broader range of patients including younger patients, as well as patients with darker skin types.

The e<sup>2</sup>'s recommended treatment protocol is three treatments every four to six weeks depending on the patient's needs and goals. Downtime is minimal and side effects include erythema and dry skin for about five days following the procedure. According to Dr. Halachmi, a topical anesthetic is sufficient for a comfortable treatment.

The eMatrix system is not only useful for skin rejuvenation in aesthetic medicine but also has medical indications such as the reduction of blood vessels. Dr. Brightman advised that sublative treatment of telangiectasias, port-wine stains, even angiofibromas is showing promise. "It is quite exciting to see this translation of an intended aesthetic application for skin rejuvenation creating skin tightening, reducing the signs of photodamage, as well as treating vascular issues in the skin," said Dr. Brightman.