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Editors

Advanced Surgical Facial Rejuvenation

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Fig. 28.7 T-3 biolifting. **(a)** Surgical suspension threads. **(b)** Fillers when necessary



thread, absorbable or nonabsorbable, can be used. Using a particular and personal instrument too, the author uses the American Quill™ barbed threads or semielastic barbed French threads Spring Threads™. This method gives rapid improvement without complications giving a more juvenile aspect of the face and lengthens the lifetime of the substances reducing the free radicals and the vascular and metabolic alterations, thanks to the spatial new position of the tissues [37].

28.7 Endo Light Lift

When it is necessary to stimulate tissues, we must use a revolutionary endodermal laser, as for the treatment for capillaries. A sophisticated small laser 808 or 980 nanometres is connected to a microfiber of 100 or 200 μm that succeeds in entering without incisions under the skin to create some energetic grates and to stimulate a new collagen restructuring the tissues. Using this minimally invasive methodology, named "Endo Light Lift™" (by Eufoton® laser), initial cutaneous excess and initial adipose palpebral bag can be treated [38] (Fig. 28.8). Using this method an endo tissue net of

laser light can be created to increase the cellular activity without complications or allergic risks.

The introduction of the microfiber into the tissues improves the quality of water and blood, increases temperature and cellular activity, and finally increases the tropism of the skin.

28.8 Biodermogenesi™

This new method is aimed to treat either for aesthetics or for the structural aspect of the skin with stretch marks. The evolution of this method provides a strategy to improve the youth of the face in association with Endo Light Lift also. Particularly, this method, named Biodermogenesi™ Face (by Expo Italia™), is used with a little special oval or bell-shaped handful, which creates a slight vacuum permitting a slight blood afflux in the treated area and a new mitotic cellular activity thanks to a special generator of bio-compatible magnetic fields [39].

The persisting migration of the ions contributes to raise the derma and hypoderm temperature of 2°, 3°, enough to permit an increasing of the cellular mitosis, until the 300% more compared to the physiological reproductive cycles on the treated patient (Van't Hoff law),

which, furthermore, is an important reactivation of the primary functions of the fibroblast, thanks to the afflux of blood and oxygen, consequence of the vacuuming action, so that we assist to a hyperemia of the surface, normally absent in the aging face's tissue. So the synergy produced permit for the first time to expand one more time the derma and nourish the cells and provide oxygen to the tissue, encouraging a progressive renovation of the capillary calibre. Biodermogenesis is based on the application of a screened electrode, which does not permit a direct energy transition to the treated skin, to which will be projected inside a huge energy quantity with variable frequency that will alternate moments of positive valence to moments of negative valence.

During this phase, the sodium and potassium move to the inside of the cellular membrane bringing nutritional factors. At the end of this phase, we have the

presence of Na⁺ and K⁺ almost exclusively to the inside of the cells; in this case, they are extremely rich and well nourished, thanks to the increasing of the pumping of these two elements, normally in charge of bringing inside the membrane, the nutritional cellular factors. Thanks to this application, the phenomenon of the cell's enrichment can be accelerated that is essential to access the following mitosis. When the distribution of the negative signal is terminated, the sodium and potassium ions are brought to the outside of the cellular membrane allowing the toxins elimination of the cutaneous cells, essential to encourage a better cellular mitosis.

The regenerative process of the Biodermogenesis™ is determined with the production of collagen and elastic fibers in order to permit a stability of the obtained result (Fig. 28.9). The elastic collagen starts to take its

Fig. 28.8 Endo Light Lift™ laser Eufoton 808–904 nm, 5.8 W, and 5 shots at 40/50 ms

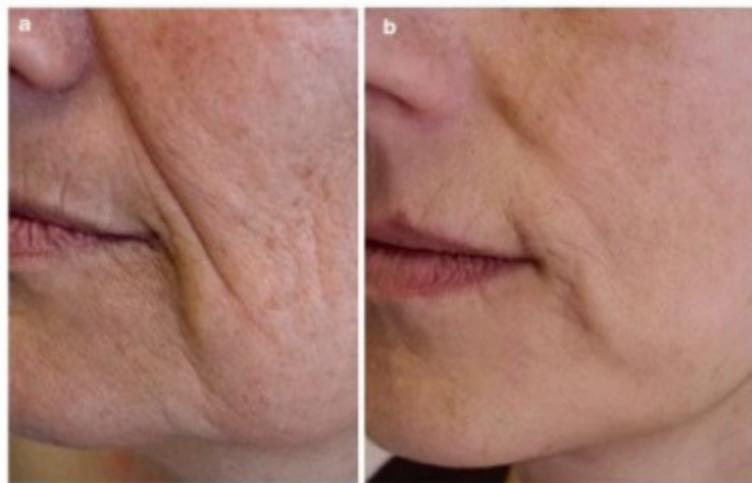


Fig. 28.9 Biodermogenesis and compressive microvibration.
(a) Pretreatment patient.
(b) Posttreatment

specific action inside the skin which gives the correct support that permits the blood supply of capillary and re-activate the fibroblast.

28.9 Bio-Lifting: Protocol of Treatment

Typical indications for Biolifting are the treatment of wrinkles and harmonization of the face. The session is minimally invasive and practically without risks. At the end of the session, the patient may use makeup. The author suggests this protocol of treatment:

- When is necessary: Filler or soft lift with barbed threads
- Endo Light Lift: One session of treatment, to create a grate of subdermal laser light in midface, eye brown, and submental area, any 3–4 weeks for 3–4 sessions for years (we suggest in winter).
- After 15 days from Endo Light Lift: We suggest a session of Biodermogenesi Face to increase the effect of laser therapy.
- Maintenance: We suggest 1 session any 3–4 weeks of Biodermogenesi Face in association to LiftMassage LPG™ to maintain the result.

28.10 Conclusions

Bioresurfacing and Biolifting are dermocosmetic treatment used to rescue the signs of aging and to improve the youthfulness of the face and neck, but not to reduce the age. If used well, these strategies offer good results without complications for the patients. It is necessary to have correct indications and interview the patient prior to treatment in order to have the best results and the satisfaction of the patient.

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