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**Smocker line (sl): Sequential combined treatment by dermoabrasion with non-ablative electrosurgery multifrequency and peeling with mandelic acid in only one session****Enrico Guarino**

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**Introduction:** Perioral wrinkles affect more than 90% of women with an important impact on the self-esteem of sound to affect the quality of life in psychological and socio-cultural terms. The formation of the smoker line is influenced by a series of factors such as age, genetics, sun exposure, repetitive facial movements, the use of various depilatory treatments, smoking; Even the lips have a much thinner layer of skin than the skin of the face, which makes it the most venerable area to get damaged by UV. The muscles surrounding the skin are normal, the repeated contraction of the muscles of the Upper lip in normal daily life, causing a loss of collagen and a slowing down of the natural fibroblasts, with thinning of the dermis. SL treatment is a very popular procedure for smokers or former smokers with an average age of 50 years. With this issue we have considered the use of a technique combined with superficial dermabrasion, performed with a multi-frequency electric device and subsequent peeling with mandelic acid and lactoferrin.

**Materials and methods:** Patients with upper and second grade lip wrinkles were inserted into the protocol. Patients were taken pre-treatment and subsequent photographs with weekly check the first month and once a month for the following six months. The protocol consisted of two times:

**Time I:** After cleansing and a light scrub based on mandelic acid, we proceeded to superficial dermabrasion using a multifrequency electrosurgery able to create a voltaic arc, with removal of the corneal layer.

**Time II:** Once the superficial corneal layer of the skin was removed, a peeling consisting of mandelic acid was combined with lactoferrin, in several states using pads, until a white Frost was obtained. Once the objective was achieved, the peeling and positioning of a post-peeling cream were carried out with the patient going to his home. Patients were given home treatment based on mandelic acid and lactoferrin.

**Results:** In the period from September 2017 to September 2018 we treated 25 women with an average age of 60 (Range

52/73). In the first postoperative week, patients experienced mild spontaneous edema. In 10 cases the appearance of hyperemia was observed, which resolved within the first thirty days of treatment. A marked improvement was observed in 18 cases from 70% to 90% of class I - II wrinkles (thin lines and generalized deep lines with moderate structural changes). A moderate improvement was observed in 7, in class II - III wrinkles with percentages ranging from 40% to 60%. No cases of hyperpigmentation, hypopigmentation, erythema, ecchymosis, pain, pruritus, herpes outbreaks, infectious processes or scars have been reported.

**Conclusions:** Dermabrasion controlled by a voltaic arc, combined with peeling with mandelic acid, pyruvic acid and lactoferrin, described in this study has proved effective for the marked reduction of perioral wrinkles. The arc acts without coming into contact with the tissues, creating a delicate coagulation. In response to the lesion, fibroblasts in the papillary dermis increase the production of pro-type I and type III collagen, in addition to transforming the growth factor beta-1 (TGF- $\beta$ ), the increase in collagen in turn thickens the dermis, increasing the tensile strength of the skin and making it the clinical aspect of rejuvenation. To reduce any side effects related to the use of the venous arc and to have a homogeneous skin regeneration without discoloration or scars, we have opted for the use of mandelic acid able to act without inducing erythema, accelerating the breakdown processes of the skin, preventing the formation of dyschromia, moisturizing power and tensor effect of the skin. To minimize the inflammatory state and the risk of hyperchromia we decided to use, in combination with mandelic acid, the lactoferrin that I have iron-chelating, antimicrobial, antioxidant and anti-inflammatory properties. In conclusion, perioral wrinkles can be treated, with a high success rate through the combined use of superficial dermabrasion by means of a voltaic arc and a peeling with mandelic acid and lactoferrin.

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