D.A.S. *medical* bibliography

Technolux srl
Long-wave plasma radiofrequency ablation for treatment of xanthelasma palpebrarum

By Baroni A.
Journal of Cosmetic Dermatology 2018;001–3

Xanthelasma palpebrarum is the most common type of xanthoma affecting the eyelids. It is characterized by asymptomatic soft yellowish macules, papules, or plaques over the upper and lower eyelids. This study aims to evaluate the effectiveness of RF ablation in the treatment of xanthelasma palpebrarum, with D.A.S. Medical portable device (Technolux, Italia), a radiofrequency tool working with long-wave plasma energy and without anesthesia. Twenty patients, 15 female and 5 male, affected by xanthelasma palpebrarum, were enrolled for long-wave plasma radiofrequency ablation treatment. The treatment consisted of 3/4 sessions that were carried out at intervals of 30 days. Treatments were well tolerated by all patients with no adverse effects and optimal aesthetic results. The procedure is very fast and can be performed without anesthesia because of the low and tolerable pain stimulation. Long-wave plasma radiofrequency ablation is an effective option for treatment of xanthelasma palpebrarum and adds an additional tool to the increasing list of medical devices for aesthetic treatments.
Total Rejuvenation of the Face with Plasma Device

By Dr. Lebbar

PMFA News Vol.4, Ed.4 April-May 2017

The use of plasma energy is a new concept in anti-aging and aesthetic medicine. Since it has been introduced in the aesthetic field, many studies have been conducted to try and understand the effects on collagen synthesis which may explain the long lasting results.

The purpose of this study was to de safely with plasma energy and the ideal power settings of the plasma device to be used to have maximum stimulation of collagen synthesis.

The plasma dermabrasion technique is a very safe technique which can be used for the rejuvenation of the face: treating the eyelids, crow’s feet, smoker’s lines and it is also very capable as an electropeel. The power and frequency settings of the medical device must be low while treating the eyelids to avoid the hyperpigmentation secondary to excessive thermal damage. The perioral smoker’s lines need a higher setting of power and frequency to obtain the maximum stimulation of collagen synthesis.
D.A.S. medical: the new plasma energy modulated in frequency
By Dr. Lebbar

Ambulatorio Medico, nr. 52 Sept-Dec 2017

D.A.S. medical allows modulation of power and frequency. This means that the operator can decide, according to skin type, type of skin (thin or thick) and treatment, both quantity of tissue to remove and the thermal damage in a demined time on a specific area. Frequency modulation allows doctor to have total control on the treatment and to act in total safety being sure to avoid risks of secondary hyper-pigmentation on all skin types. D.A.S. medical device allows to perform different dermatological and medical aesthetic treatments, e.g. removal of dermal fibromas and eyelid skin laxity, in total safety. I have treated darker skin types without any risk of secondary hyper-pigmentation, since the device allows the modulation of frequency.
Innovative medical device D.A.S. Medical
Used in Aesthetic Dermatolgy to Treat Scars and for Face Rejuvenation

By Dr. Lebbar
HiTechDermo, Vol. 3-2018

PURPOSE
The aim of the study demonstrate the efficacy of D.A.S. medical device in treating scars (post-acne and post surgical blepharoplasty), active acne and peri-oral and peri-ocular wrinkles.

CONCLUSION
D.A.S. medical is an innovative device with many indications. The selective thermolysis, obtained though a stable and controlled plasma, generates neo-collagenesis allowing to treat effectively wrinkles and scars. The possibility to select the frequency level allows a great control over thermal injury of the skin, and makes it possible to treat high skin types without PIH issues.
D.A.S. Medical Efficacy
Used in Aesthetic Dermatology to Treat Scars and for Face Rejuvenation

By Dr. Lebbar
Ambulatorio Medico, nr. 56 Jan-Apr 2017

D.A.S. medical is an innovative device with many indications in Aesthetic Dermatology: from superficial epidermal treatment such as plasmapeel to the deep cutaneous rejuvenation for per-ocular and per-oral wrinkles, to obtain a long-lasting neo-collagenesis.
Plasmapeel combination with spot technique for wrinkles treatment allow to obtain a remarkable improvement of the texture and an immediate brightening of the skin due to the removal of superficial stratum corneum.
Frequency modulation grants a reduction of the thermal injury and avoids PIH in areas exposed to sun.
The ever growing demand for minimally invasive treatments with rapid recovery has driven my interest towards a new technology called Dermo Ablation Surgery (D.A.S.) that has proved to be useful in the treatment of benign cutaneous lesions and of light or moderate skin eyelid laxity. The Dermo Ablation Surgery is an ablative long-waves radiofrequency that exploits a well-known principle, that of radiofrequency, that has been improved and enriched. D.A.S. technology is contained within a device consisting of a handpiece with a sterile metal electrode and a controller that allows the regulation of the working values. Approaching the electrode near the skin, it creates a voltaic arch that generates an electromagnetic wave responsible for the effect on the skin itself.

In view of an improvement and rejuvenation of the face, it is possible to associate the D.A.S. medical to other treatments such as botulinum toxin or hyaluronic acid.
Total Rejuvenation of the Face with Plasma Device
By Dr. Lebbar - AMWC 2017

Background / Introduction
The plasma energy is a new concept in Anti-Aging and Aesthetic Medicine. Since it has been introduced in the Aesthetic field, many studies have been conducted trying to understand the effects on the collagen synthesis which could explain the long lasting results.

The purpose of the study is to define the face areas to be treated with the plasma energy and the ideal power settings of the device to be used to maximize the stimulation of collagen synthesis.

Material & Method
The medical device used is D.A.S. medical, is a plasma device which permits a controlled ionization of the gas contained in the air producing plasma. This mechanism allows, when the device is very close to the skin, the sublimation of the upper layers of the epidermis. The stimulation of a new collagen synthesis is due to the controlled skin thermic damage (controlled thermolysis) due to the plasma energy.

The medical plasma device has 5 levels of power settings and 5 levels of frequency setting. The level of frequency defines the depth of energy penetration in the skin, while the level of the power defines the degree of the thermic damage.

D.A.S. medical is the only plasma device with the possibility to settle the frequency in order to control the thermic damage and the risk of hyperpigmentation.

I have treated 20 patients: 5 of them for the eyelids rejuvenation, 5 for the smoker lines, 5 for the crow’s feet and 5 patients for the enlarged skin pores using plasma electropel.

I have excluded tanned patients and patients with phototype 5 and more in the scale of Fitzpatrick to avoid the risk of hyperpigmentation.

No medical preparation was performed except an anesthetic cream 30 minutes before the procedure (lidocaine 30%). The session of plasma electropel was followed always by an application of a mask with retinoid acid and growth factors. I have been operating using a triangle technique, I pulled small spots on the superficial skin layers, leaving 1 millimeter between every spot (healthy skin area), this method allows a faster recovery time. To treat the crow’s feet, I have treated only the elevated skin from one part and the other of the wrinkle.

Results
75% of the patients were satisfied after only one session. I have performed 2 sessions for 2 patients treated for the crow’s feet, 3 electropel sessions for 4 patients, 2 sessions of eyelids rejuvenation for 2 patients, 3 sessions for smoker lines for 2 patients.

4 patients treated for the eyelids rejuvenation had an important skin tightening after only one session. The side effects were eyelids edema for 3 patients treated for the eyelids rejuvenation which lasts 5 days, 2 patients treated for the smoker lines had a redness lasting 7 days, 1 patient treated for the crow’s feet had also an erythema lasting 10 days after the removal of the crust, 5 patients had a redness after the electropel lasting 2 days. Only one patient treated for the eyelid rejuvenation had a hyper pigmentation secondary to an important eyelid inflammation not treated correctly.

Conclusion
The plasma dermabrasion technique is a very safe technique which can be used for the rejuvenation of the face: treating the eyelids, the crow’s feet, the smoker lines and it is also very performant as an electropel. The power and frequency settings of the medical device must be low while treating the eyelids to avoid the hyper pigmentation secondary to an excessive thermic damage. The smoker lines need a higher setting of power and frequency to obtain the maximum stimulation of collagen synthesis.
Smart News
Smothen eyelid with D.A.S.
by Dr. Di Russo G.
Silhouette Feb. 2019

LE NOVITÀ smart
Per eliminare le rughe, le borse e le occhiaie oggi ci sono soluzioni smart: poco invasive e dai risultati subito evidenti. Perfette come primo approccio al problema e anche ideali per chi non gradisce l’idea di dover ricorrere ai bisturi o al botulino. Peeling, carbosistension, radiofrequenza ablativa, filler e retermalerizzazione sono adotti anche alla correzione di questi instabilità su visi giovani.

stira le palpebre con la D.A.S.
Dai 40 anni in poi le palpebre iniziano a perdere tonicità. Il trattamento più nuovo per risolvere questa situazione si chiama Derma Ablation Surgery (D.A.S.) ed è una vera e propria bioterapia non chirurgica. Sfruttando il principio della radiofrequenza obblativa a onde lunghe, spiega la dott.ssa Maria Gabriella Di Russo, medico estetico presso il Centro Clinico Agerà di Milano e a Formia. «Con un manipolo a punta, simile a una penna, si sfiora la palpebra eseguendo piccoli spot puntiformi distanziati tra di loro. Per ridurre il fastidio che potrebbe dare la radiofrequenza obblativa, può essere usata una crema anestetica sulla zona da trattare: spiego. L’effetto della D.A.S. è immediato. Le sedute durano pochi minuti e consentono di riprendere subito le proprie attività. Per evitare gonfiori e disagi e per ottimizzare il risultato si può suddividere il trattamento in due o quattro sedute.

il “gas” anti borse
Per attenuare le borse di tipo edematoso, dovute cioè a un cattivo drenaggio dei liquidi, funziona molto bene la carbosistension. «Il trattamento favorisce la circolazione sanguigna e linfatica riducendo la congestione, stimola la produzione di nuovo collagene migliorando visibilmente l’aspetto della pelle e minimizzando i gonfiore spiega la dottoressa. «La CO2, che viene inserita sotto forma dell’angolo esterno dell’occhio, provoca un leggero rigonfiamento e arricciamento che può rimanere per qualche ora.

QUANTO COSTA
Il costo a seduta è di 150 euro. Sono necessarie circa 2 o 3 sedute ogni 21 giorni e un eventuale mantenimento.