

MESO-OXY-NEEDLING (NEEDLING AND OXYGEN INFUSION): A WINNING METHODOLOGY FOR BOTH SKIN PHOTOAGEING AND BIOREVITALIZATION

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SUBJECT

The aim of this study is to measure the effectiveness, in the treatment of photo/chrono ageing of a methodology which combines, in the same session, meso-needling and high pressure Oxygen Infusion.

Oxy Xtra Med was used for Oxygen Infusion. This is a medical device which supplies 98% pure oxygen at a pressure higher than 2,5 ATM (6 L/min. at 93/96% - ATA between 2 and 3 – intermittent) with the aid of a handpiece placed on the skin.

The needling was performed using DTS Rollers (Maya Beauty Engineering srl.), characterized by a very high concentration of diamond shaped needles with 0.20 mm diameter and lengths which vary from 0.25mm to 0.50mm (chosen on the basis of skin thickness). The iconography was produced using Antera, a photo system which measures skin texture (wrinkle dimension, depth and width) as well as skin melanin and hemoglobin content. DRUGS: monomer fractions of hyaluronic acid, amino acids, desossiribo nucleic acids, vitamins, plant stem cell extracts, nano molecular polypeptides (sterile disposable packaging)

METHOD

The selection of which roller should be used and its "length and aggressiveness" is made according to

the degree of skin damage and consequently the results desired (revitalization and restoration). During the needling procedure (bringing about typical micro traumas' inflammatory action, activation of the repairing phase and of the collagen producing phase), Oxygen Infusion is performed by using a special head placed on the mono phase handpiece. This, as well as its intrinsic action (intense oxygenation of the deep dermis, micro circulation activation, matrix stimulation inducing collagen type I and III neo formation), allows the correct medications to be vehiculated more effectively (meso-oxy-needling). Before performing Oxyneedling the work protocol requires careful cleansing of the treated area. The effectiveness of the DTS diskrollers is then measured (handiness, sliding, rolling), as well as the intensity of the induced inflammation and the tolerance levels. To better represent the degree of patient satisfaction and for a greater correctness in the assessment of the results, an adequate "Pre & Post" iconography -obtained by using both a standard photographic unit as well as Antera, a cutting edge "photographic system"- is then presented.

All patients were invited to adopt dietary implementations inclusive of amino acids and/or supplements and home use products for topical application. Patients underwent a cycle of three sessions.



RESULTS

Treated patients found the stimulation acceptable. Excellent were post-treatment visual impact and results in terms of wrinkles depth and consequent visibility, even after a single treatment. Improvement of skin texture in terms of grain, lines and depth of wrinkles. Lesser action on skin tone. Good patient satisfaction and compliance.

The author believes that this innovative technique can be successfully included amongst those techniques that contrast advanced photo and chrono ageing, as well as being an excellent alternative solution to traditional iontophoresis and electrophoresis systems.