MEDICAL GAS SINERGIES IN EDEMATOUS FIBROSCLEROLTIC PANNICULOPATHY TREATMENT; PRELIMINARY EXPERIENCES AND LYPOLITIC EFFECT TESTS.

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SUBJECT

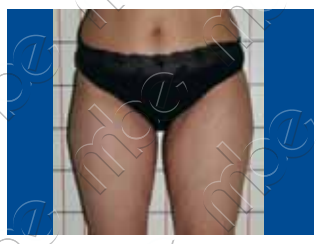
Presentation of the first results of a modular methodology to be used for edematous fibrosclerotic panniculopathy treatment: Gas Contouring, the association of carboxy therapy and Oxygen Infusion.

MATERIALS

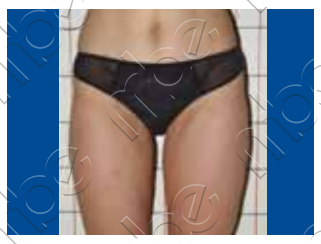
Oxy Xtra Med was used for Oxygen Infusion. This is a medical device which supplies 98% pure oxygen at a pressure higher than 2.5 ATM (6 L/min. at 93/96 % - ATA between 2 and 3 – intermittent) with the aid of a handpiece to be placed on the skin. VENUSIAN CO2 therapy was used for carboxy therapy, a medical device which makes it possible to inoculate heated medical Carbon Dioxide into the skin or Hypodermis, using 27-30G needles, 12.7 mm long.

METHOD

Much has been said about carboxy therapy and of its effectiveness in the treatment of edematous fibrosclerotic panniculopathy and venous-lymphatic insufficiency, so there is not a lot to add. This is why the author has chosen to emphasize the results already obtained with this methodology, by associating it with Oxygen Infusion treatment (6 L/min. at 93/96 % - ATA between 2 and 3 – intermittent) performed at the same time. So as to verify the lipolytic effectiveness of this procedure, the urine osmotic concentration of the patients undergoing the treatment was measured. Urine osmotic concentration is considered a reliable and precise indicator of the lipolytic action of a specific treatment. As a matter of fact each time the intra adipocyte lipase is activated, triglycerides are separated into fatty acids and glycerol. The latter, in absence of glycerol kinase, cannot be used again and leaves the adipose cell, entering the circulation. At this point, due to its high osmotic action, it extracts liquids very rapidly from extracellular compartments, inducing a consequent intense diuresis (osmotic) proportional to the quantity of circulating glycerol. For this purpose three urine collections were performed: in basal conditions, immediately after the end of the treatment, and one hour later. Also two impedance analysis exams were held (BIA AKERN impedance analyzer) the first in basal conditions and the second one hour after treatment. The following step is to perform the statistical analysis of the osmotic variations measured for each patient and of the results of the impedance analysis, to assess its significance. The effectiveness of Oxygen Infusion administered at the same time as Carboxy Therapy is then analyzed. To better represent the degree of patient satisfaction and for a greater correctness in the assessment of the results, an adequate "Pre & Post" iconography is then presented.All patients were invited to adopt dietary implementations inclusive of aminoacids and/or supplements and home use products for topical application.



Before



After

RESULTS

Treated patients found stimulation acceptable. Decent patient satisfaction and compliance (effects on edematous fibrosclerotic panniculopathy are not immediate). Improvement of skin texture in terms of grain, lines and depth of wrinkles. Effective lipolytic action (< 80 cc./min.) in specific areas. The author believes that this innovative technique can be rightly included amongst those techniques that contrast edematous fibrosclerotic panniculopathy and localized adiposities.