42 nd S.I.M.F.E.R National Congress
TORINO
Physical and Rehabilitation medicine:
Innovation
Eficacy
Sustainability

Evaluation of results in patients with low back pain muscle tension: capacitive diathermy versus capacitive diathermy + emulgel with OZOILE ® (Ozone Topical stabilized in Oleic Acid with Vitamin E Acetate)

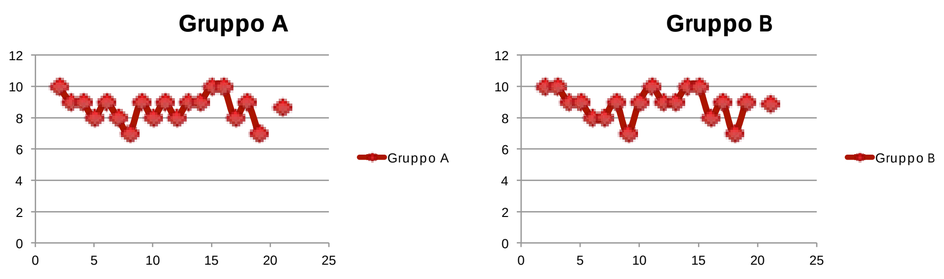
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Introduction:
Low back pain is a clinical condition characterized by pain and stiffness associated with muscle contracture reported between the lower edge of the costal arch and the inferior gluteal folds. At the onset low back pain muscles contract and therefore the movements of the lumbar are altered.
The capacitive diathermy allows a therapeutic effect on muscle contractions through the provision of a flow of displacement currents that produce three types of effects:
• Effect biochemical
• Thermal effect
• Mechanical effect

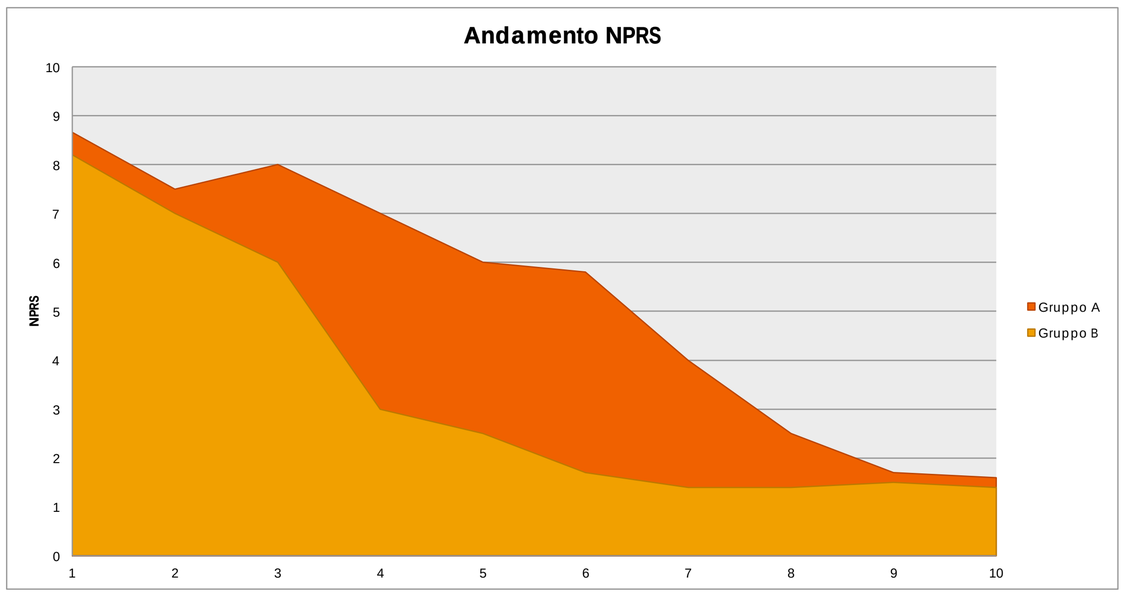
Aim of the study:
The objective of this observational study, conducted on 40 patients, divided into two groups (A and B), is the assessment of the effect on back pain and muscle contracture, via diathermy with capacitive conductive cream (traditional treatment) versus diathermy treatment with capacitive conductive emulgel containing OZOILE ® (Ozone Topical stabilized in Oleic Acid with Vitamin E Acetate, glucosamine, chondroitin sulfate, plant complex of devil's claw, blackcurrant and Bromelain (unconventional treatment).

Materials and methods:
40 patients participated in the study, divided into two groups, A and B, each of twenty, with low back pain in the acute and sub-acute phase, with contracture of the lumbar paravertebral muscles, observed through outpatient visit carried out c / o the Outpatient Physical Medicine and Rehabilitation Division INI Villa Dante.
For each patient a physiatrist exam was carried out on order to evaluate the clinical status (evaluation of the ROM, testing LA segue, Wasserman test, evaluation of contracture hamstring and psoas-iliac), functional (evaluation scales NPRS, Back Hill) and evaluation with laboratory tests (ESR, CRP, blood count, protidogramma electrophoretic).
Group A was subjected to treatment with number 10 sessions of capacitive diathermy (traditional treatment): group B was subjected to 10 sessions of capacitive diathermy with emulgel containing OZOILE ® (Ozone Topical stabilized in Oleic Acid with Vitamin E Acetate, glucosamine, chondroitin sulphate, plant complex of devil's claw, blackcurrant and bromelain); the procedure was repeated 3 times a week for both groups.

Results and Conclusions:
Patients in group A and group B, as already shown by other observational studies, presented at the end of the 10 sessions a statistically significant improvement in pain reduction (NPRS).
The analysis of the results obtained, for the Group B (treated with therapy and tecar emulgel containing OZOILE ®)), has highlighted a reduction in pain as early as the sixth session;
This suggests that in group B experience a strengthening of the muscle relaxant and analgesic treatment induced capacitive diathermy and action Ozone topical through the Ozonides that carry oxygen bonded with bioavailability through the immediate plasma membrane, facilitating the passage of the active ingredients.



NPRS T0 Gruppo A e Gruppo B



Bibliography

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