

Literature

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Abstract

BACKGROUND AND RATIONALE

The important goals achieved by the biomedical technologies lead us to search new mechanisms to contribute to the treatment of lymphatic pathologies. The aim of our study is to examine a new instrumental physiotherapeutic method characterized by the utilization of intermittent electrostatic fields with deep oscillation.

MATERIAL AND METHODS

HIVAMAT® 200 operates at the level of the connective tissue using a pulsing electrostatic field, producing an intense resonant vibration within the tissues involved. The repetition of this phenomenon in rapid succession generates rhythmic deformations of the tissue. This action permits fibre and tissue layers to reacquire motricity and malleability. Upon these premises we conducted a clinical and instrumental study in order to verify it's efficacy in the treatment of lymphedemas of the limb. From May to December 2005, 20 patients affected by lymphedema of the limbs underwent treatment with HIVAMAT® 200 in conjunction with II class elastic stockings.

RESULTS

The results obtained in 20 patients confirmed that this method can have an important role in the treatment of such a complex disease. We achieved a statistically significant reduction in the circumference of the limbs and in the thickness of the subcutis.

CONCLUSION

The advantage of HIVAMAT® 200 lies in the combination of electricity and the various techniques of manual massage, thereby improving the results and the quality of treatment. Moreover, due to the potential for self-treatment, it is also possible to offer an on-going domestic therapy.