ABSTRACT BOOK ABSTRACTS



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VASCULAR DISEASE, VASCULITIS

NANOFAT IN CHRONIC VENOUS LEG ULCERS HEALING: AN UPDATE.

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Background: Few reports have documented the efficacy of nanofat in ulcers healing. Nanofat is obtained by lipoaspirate; the proprieties of nanofat in regenerative and aesthetic surgery are just being discovered.

Objective: The aim of this study update was to assess the efficacy and safety of nanofat in promoting wound healing. We designed a prospective case control study to evaluate the effects of topical nanofat injection in venous leg ulcers.

Materials and methods: We recruited 10 patients affected by non-healing leg ulcers associated to venous etiology. All lesions were not responsive to standard of care. Each patient was treated with topical injections of nanofat, filtrated through transfer kit, then covered with polyurethane film and 3 layers of dressings. Assessment was carried out through wound area tracing at baseline, after 7, 15 and 30 days of therapy, and at the 3 and 6 month follow-up.

Results: A statistically significant improvement in % of area reduction (up to 100% at 30 days) measured by histogram planimetry was evidenced. The mean area reduction in % persisted or improved at 6 months. No ulcer tended to recur. Visual analogue scale (VAS) documented good to excellent patient satisfaction.

Discussion: Actually there is a noticeable lack of randomized controlled evidences about nanofat employement in venous leg ulcers healing in the international literature. Our study represents a comprehensive experience in terms of patients numbers and type of loss of substance documenting the use of nanofats injection in wound healing. Further controlled data will be needed to confirm our evidence.



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