E-Poster

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Chronic Wound Treatment With Shockwave Therapy (SWT): A Case Report

Topic: Physical Modalities

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BACKGROUND

The incidence of chronic wounds is increasing in all regions of the world, causing damage to patients' quality of life and health costs. Chronic wounds are those in which healing does not occur properly after three months. In most cases, the etiology is multifactorial and includes vascular causes, infections, local pressure, diabetes and trauma. Complications of chronic wounds include new infections, tissue calcification, necrosis and emotional and functional impairment. The treatment of chronic wounds is multimodal and can be carried out with dressings, ointments, surgical debridement, negative pressure therapy, hyperbaric oxygen therapy, ultrasound, dietary changes and physical means, such as Shock Wave Therapy (SWT).

CASE DESCRIPTION

Our patient is a 43-year-old man, victim of a motorcycle/bus collision in June 2024, evolving with degloving in the left lower limb, in the lateral region of the thigh, approximately 20 cm long. The degloving was primarily treated by the Plastic Surgery team with a vacuum dressing (125 mmHg) for four days, but the healing failed to succeed. The patient was then referred to our service and evaluated on September 2, 2024, when SWT was indicated and treatment began on September 23, 2024. Fourteen weekly sessions were carried out on the pericycle region and the edges of the lesion, with sterile plastic wrap protecting the wound, using the following parameters: 2000 pulses, frequency between 6-8 Hz and intensity between 1-2.5 Bar. The device used was SWISS DOLORCLAST CLASSIC (ECOMED - Electro Medical System, manufactured in 2004 - model FT-126W / Series AK131). During the treatment, an improvement in the scar pattern was observed, with granulation tissue, epithelialization and a reduction in the size of the scar after 14 weeks.

DISCUSSION

As observed in other studies and clinical trials, the treatment of our patient's wound also showed a satisfactory, safe, painless and uncomplicated result. Although the mechanism of action is still uncertain, it is known that OCT promotes improved tissue perfusion and angiogenesis, which are essential for wound healing.

CONCLUSION

Shockwave Therapy showed satisfactory results after 14 sessions, and it can considered a safe and promising resource for treating chronic wounds, as shown in several studies, with improved tissue vascularization and healing speed.

Statement of Disclosures

None

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