ABSTRACT BOOK ABSTRACTS



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WOUND HEALING

## HYPERBARIC OXYGEN THERAPY AS AN ADJUVANT TREATMENT IN A PATIENT WITH MARTORELL HYPERTENSIVE LEG ULCERS

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Background: Martorell ulcer is an ischemic and very painfull lesion of lower limbs. It is assotiated with poorly controlled hypertension, mostly in women. It is located in the distal third of the lower limbs.

Hyperbaric oxygen therapy involves breathing 100% oxygen at higher then atmospheric pressure in order to provide better oxygenation of the tissues and to enhance the wound healing processes. The aim of the study is to evaluate the effect of 100% oxygen under pressure applied as an adjuvant treatment in a patient with Martorell ulcer of the lower limb.

Observation: Patient was 45 years old women. She had multiple, extremely painful, symmetrical ulcers of the distal part of the lower limbs, above the ankles that persist for 1.5 years with inflammation and wound secretion. Previously patient was treated with antiinflammatory and immuno-suppressive therapy. She had poorly controlled systemic arterial hypertension last few years. The following investigations were carried out: microbiological analysis of wound swab, deep elliptical incisional skin biopsy across the edge of the ulcer(patohistological findings for Martorell ulcer), blood tests,cardiovascular investigations ( ultrasound color Doppler of the lower limbs, echocardiography). Additional investigations: chest x-ray and abdominal ultrasound .

The following treatments had been carried out: surgical debridement of wounds, wound dressings, oral antibiotic and cardiovascular therapy (antihypertensive drugs) and analgesics. During the entire treatment, continuous hyperbaric oxygen therapy was carried out and it consisted of: 40 exposures, protocol of 2.2 ATA, duration of 70 minutes, 5 times a week.











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Key message: The treatment improved and accelerated the process of granulation and epitelization, and provided absence of a wound infection. Hyperbaric oxygen therapy as an adjuvant treatment is effective in accelerating the wound healing processes.



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