

MEETING ABSTRACT

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# Two cases of hypertensive Martorell's leg ulcers

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## Background

Martorell's ulcer is also a type of ischaemic ulcer occurring in hypertensive patients. The main features of this lesion are the following: location on the lower anterior surface of the lower two thirds of the leg; pain far more severe than is expected given the size of the ulcer; significant arterial or venous disease; female-to-male predominance, association with no-controlled hypertension [2]. We describe two recent cases of hypertensive patients.

## Materials and methods

1) A 78 years old female showed a painful ulceration on the lower-anterior surface of the left leg, sized 2x4cm (see Figure 1), covered by fibrinous exudates, demarcated margins and hyperaemic perilesional skin. She said she was not hypertensive and did not take antihypertensive drugs but, on clinical and physical examinations, her blood pressure was 195/90mmHg on the left arm and 187/85mmHg on the right. Ultrasound showed moderate arteriopathy but good peripheral flow. In order to control blood pressure the patient was treated with combination ACE inhibitors and diuretics, pentoxifylline 400mg/t.i.d., mesoglicane to improve microcirculation; topic treatment was made with enzymatic debridment and promogran wound dressing. Follow-up to 7, 15 days we observed normalization of the arterial pressure and ulcer reducing size to 1,5x2,5cm, the patient was pain free. 30 days follow-up ulcer is closed.

2) A male 63 years old, smoker, with a ulceration on the lower-lateral surface of the right leg, sized 1x2cm and other satellite smaller lesion 1x0,4cm, covered by fibrinous exudates (see Figure 2). Ultrasound showed moderate arteriopathy but good peripheral flow. Blood pressure was 200/95mmHg on the left arm and 190/85mmHg on the right. Patient was treated, also, with combination ACE inhibitors and diuretics, pentoxifylline, mesoglicane,



Figure 1



Figure 2

topic treatment with enzymatic debridment and promogran wound dressing. Follow up to 7,15,days showed normalization of pressure, no pain, 90% epithelialization of main ulcer and closure of the smaller.

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## Results and conclusions

Martorell's ulcers are associated with long-standing or poorly controlled hypertension. Antihypertensive therapy controlling arterial pressure and topic treatment result in the resolution of these very painful lesions [1].

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## References

1. Graves JW, Morris JC, Sheps SG: Martorell's hypertensive leg ulcer: case report and concise review of the literature. *Journal of Human Hypertension* 2001, **5**:279-283.
2. Leu HJ: Hypertensive ischaemic leg ulcer (Martorell's ulcer): a specific disease entity. *Int Angiol* 1992, **11**:132-136.

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