**INTRODUCTION**

A new treatment based on Negatively Charged Microspheres (NCM), is a medical device (IIB) indicated for the treatment of chronic and hard to heal wounds, including those with exposed bone and tendon.\(^1\)\(^2\)

**OBJECTIVE**

To describe the results of a new topical product based on Negatively Charged Polystyrene Microspheres (NCM) for the treatment of hard to heal wounds.

**METHODS**

Patients with hard to heal wounds and/or those with exposed tendon and bone, were started treatment with NCM in a Specialized Wound Unit during 2017.

**RESULTS**

These are the preliminary results of patients treated until now. NCM treatment has begun in 18 patients. 61% were men and the mean age was 68 years (range: 53-89 years). 67% had diabetes mellitus and cases were classified according to the ulcers etiology in ischemic (50%), venous (28%) and neuropathic (22%).

At 4 weeks follow-up, 100% had ≥75% granulation tissue, 75% had covered bone and/or tendon, the mean ulcer area decreased to 23.5 cm\(^2\) and the area percentage reduction was 51%.

The following pictures were some difficult cases treated with NCM treatment, that included bone and/or tendon exposition:

Of these 18 cases, 33% had at least 4 weeks of NCM treatment. NCM treatment was applied once a day until wound healing, following the instructions of use.\(^2\)

The results of these 33% of patients were: At baseline, the mean ulcer area was 47.5 cm\(^2\) and 67% had tendon and/or bone exposed. 67% had ≤25% granulation tissue and 33% had ≥75% granulation tissue in the wound bed.

NCM treatment was temporarily interrupted in 1 case, due to an infection not associated with the product. Once controlled, the NCM treatment was restarted.

**CONCLUSION**

The analysis showed that NCM treatment in hard to heal wounds, improves healthy granulation tissue formation and reduces wound size. NCM could be a new treatment option in hard to heal wounds, even in those with exposed bone and/or tendon.

**REFERENCES:** 1. Shoham Y et al. *J Wound Care.* 2013 Mar; 22(3): 144-55. 2. Instructions of Use PolyHeal Micro 2017