

## EVALUATION OF THE EFFICACY AND TOLERANCE OF A DRESSING IMPREGNATED WITH NOSF (NANO-OLIGOSACCHARIDE FACTOR), IN THE LOCAL MANAGEMENT OF DIABETIC FOOT ULCERS

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**Aim:** The occurrence of foot ulcer in diabetic patients results from the combination of neuropathic and arterial disease affecting their lower limbs.

Locally, the healing potential of these wounds is also compromised because of a high level of proteolytic activity (particularly of Metalloproteinases).

NOSF (Nano-OligoSaccharide Factor) is an innovative compound, which can promote the healing process of chronic wounds (already documented in leg ulcers), mainly by acting on the inhibition of Matrix MetalloProteinases.

Consequently, a multicentre pilot study has been conducted to assess the efficacy and tolerance of NOSF in the local management of diabetic foot ulcers.

**Methods:** 33 patients (mean duration of diabetes disease 17 years), presenting a Grade 1A (Texas classification) neuropathic foot ulcer (MNSI > 3) were included and followed up twice per month for a period of 12 weeks (with clinical, planimetric and photographic assessments).

**Results:** The mean duration of treated wounds was  $6.7 \pm 5.2$  months, with an average surface area of  $2.7 \pm 2.4$  cm<sup>2</sup> at baseline. The surface area decreased by 63% after 12 weeks. A complete healing was observed in 10 patients (30%) after a mean time of treatment of 62 days.

No local adverse event related to the local treatment, occurred during the follow-up and the acceptability was considered good by health care professionals and patients.

**Conclusions:** This pilot clinical study has documented the good efficacy and good tolerance of the NOSF in the local treatment of these diabetic foot ulcers and seems to offer a promising therapeutic alternative.