

HYDRATED, SUPER ABSORBING COPOLYMER DRESSING AS A NEW THERAPEUTIC CHALLENGE FOR NON HEALING WOUNDS

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Aim: Hydrated, super absorbing copolymer is a new dressing with bio-active properties modulates proteins and ions. The product mimics the behaviour of sulpha glycosaminoglycans, which have the influence on growth factors and cytokines, regulate proteases and modulate the inflammation reaction (1). We evaluated it as a new therapeutic option for non healing ulcers.

Methods: We include 12 patients (9 women, 3 men; average 74 years) with 13 noninfected and 2 infected leg ulcers (an average diameter 14.6 cm). At start and one month after therapy area and circumference of the ulcers were measured by computer planimetry with photography and wounds' beds were assessed according to Falanga's classification. Horizontal initial healing rate was calculated using Gillman's equation. All patients wear long stretch compression bandages and had systemic rutozid.



Picture1. Venous leg ulcer before (a), with Principelle Matrix (b) and after one week of therapy (c)

Results: 13 of 15 wounds improved during one month of therapy with the new dressing. An average horizontal initial healing rate in first month was 0.2 cm, all wounds' beds, except four were granulated after one month of therapy. Only 2 patients felt discomfort while wearing new dressing. Later on infections with *β haemolytic Str.* and *Ps. aeruginosa* were confirmed.

Conclusion: According to fast average horizontal initial healing rate, wounds' beds improvement in first month and patients' satisfactions, we founded the new dressing as a promising new challenge for local therapy for non-infected chronic wounds.

1) Principelle Matrix®



Picture 2. Leg ulcer with maceration before (a), one week (b) and three weeks after therapy with Principelle Matrix®

1) Principelle Matrix®