

Stimulation of epithelial tissue by a HydroBalance biocellulose based wound dressing, Suprasorb® X

N. Mustafi¹, M. Schmitz²

¹ Krankenhaus Nordwest, Frankfurt a. Main, Germany

² Lohmann & Rauscher GmbH & Co. KG, Rengsdorf, Germany

Introduction:

Beside the stimulation of granulation tissue the efficient wound closure by new epithelial tissue is an essential target in modern wound management. An essential requirement is the establishing of an optimal moist environment for the migrating epithelial cells. Therefore, in the following presented case study the properties and conveniences of the HydroBalance biocellulose based wound dressing, Suprasorb® X were investigated.

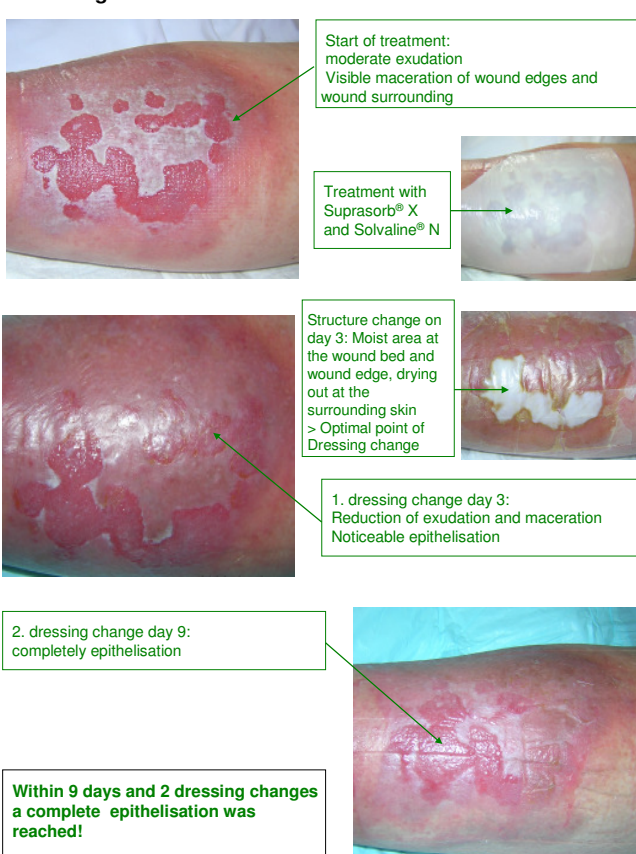
Results

The following effects could be documented:

- “Speedy” migration of epithelial tissue
- Significant reduction of wound area in 4 weeks (medial from 14,7 cm² to 1,3 cm²) (comparable with first experiences in the USA¹)

In addition to the described effects the easy handling of the HydroBalance biocellulose wound dressing was the prominent experience for the users.

66 year old male patient
Venous lower leg ulcer
Wound age: 6 months



Start of treatment: moderate exudation
Visible maceration of wound edges and wound surrounding

Treatment with Suprasorb® X and Solvaline® N

Structure change on day 3: Moist area at the wound bed and wound edge, drying out at the surrounding skin > Optimal point of Dressing change

1. dressing change day 3: Reduction of exudation and maceration
Noticeable epithelisation

2. dressing change day 9: completely epithelisation

Within 9 days and 2 dressing changes a complete epithelisation was reached!

58 year old female patient
Secondary healing after tracheotomy
Wound age: 4 months
Previous treatment: conservative



Start of treatment: Suprasorb® X and Suprasorb® F as secondary dressing
slight exudation
pale granulation tissue

1. dressing change 5. day: Noticeable reduction of wound area through new epithelial tissue
Ongoing treatment with Suprasorb® X and Suprasorb® F

2. dressing change 10. day: completely epithelisation

Conclusion

The selection of the primary dressing dependent on the wound healing stage is one of the determining options, in the management of exudate the choice of the adapted secondary dressing is the critical factor.

A product with a broad field of application is a very facilitating help for the prescriber and the user. The combination of the good wearing comfort and pain reduction is also very supportive for the compliance of the patients.

In these cases the treatment regime used over 4 weeks showed an excellent clinical efficacy of the biosynthesised cellulose wound dressing, Suprasorb® X, supporting the healing process in all wound healing stages and different exudation levels from the dry wound up to a moderate exudation.

The clinical evaluation is ongoing.

References

1. Alvarez O.M.; Patel M.; Booker J.; Markowitz L. Effectiveness of a Biocellulose Wound Dressing for the treatment of Chronic Venous Leg Ulcers, Results of a Single Center Randomized Study Involving 24 Patients; Wounds (2004) 16 (7): 224-233