

# Cost-effectiveness in Modern Wound Management Observation study with an HydroBalance biocellulose based wound dressing\* in Germany

Schmitz M, Eberlein Th\*, Abel M

Medical & Regulatory Affairs, Lohmann & Rauscher GmbH & Co KG, Rengsdorf/ Germany; \* MD, Nuremberg, Germany

## Introduction:

Nowadays, the Modern Wound Management also stands for cost reduction beside the reduction of healing time and pain. The economic side of Wound Management is very important from the health economic point of view as well as more and more data are available today. Therefore, in the following observation study with 60 patients we evaluated the costs of treatment beside the success of wound healing.

## Material and methods:

Patients with chronic wounds (from light to moderate exudation) have been included (fig 1). Beside the treatment of the underlying diseases following treatment with modern moist wound management products was used: as primary dressing an HydroBalance biocellulose based wound dressing\* and as secondary dressing - adapted on the current exudation stage of the wound - a film\*\* dressing (light exudation) or a foam\*\*\* dressing (moderate exudation) (fig 2).

In addition to the current costs of the wound dressings the personnel costs were documented. These costs were compared with costs of Traditional Treatment and Modern Wound Management described in the literature<sup>1,2</sup>. Total costs resulted from costs of material plus personnel costs and frequency of dressing change.

\* HydroBalance biocellulose based wound dressing = Suprasorb® X  
\*\* Film = Suprasorb® F  
\*\*\* Foam = Suprasorb® P  
Lohmann & Rauscher products

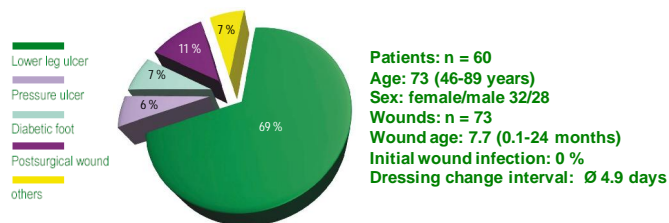


Fig. 1  
Distribution of indications - mainly lower leg ulcers (69%)

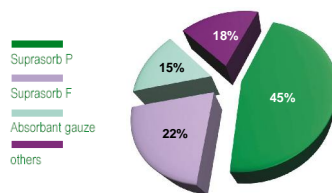


Fig. 2  
Distribution of secondary dressings

## Results:

In comparison to the treatment with traditional wound management products, the costs in total for the treatment with products of Modern Wound Management are significant lower (-49.35%; fig 3). Due to the prolongation of the interval of dressing change (4.9 days average) of the HydroBalance biocellulose based wound dressing\*, the total costs with this treatment regime were additionally significant reduced (with foam\*\*\* as secondary dressing: -61.86%; with film\*\* dressing: -73.67%; fig 4) in comparison to Traditional Wound Management.

## References

1. BVMed, Wirtschaftlichkeit und Gesundheitspolitik, Einsatz von hydroaktiven Wundauflagen, 01/05
2. Sellmer, W., Alles viel zu teuer, in: Heilberufe8, 2002, 34

## Comparison of costs Traditional vs. Moist Wound Management



Fig. 3  
Comparison of Traditional Treatment and Moist Wound Management

## Comparison of costs Traditional vs. Moist vs. HydroBalance Wound Management



Fig. 4  
Comparison of Traditional Treatment, Moist and HydroBalance Wound Management with different secondary dressings