

Cost-effectiveness in Modern Wound Management

Observation study with an HydroBalance biocellulose based wound dressing* in Germany

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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 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. 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).

In addition to the actual costs of the wound dressings the personnel costs were documented. These costs were compared with costs of traditional and Modern Wound Management described in the literature^{1,2}. Total costs resulted from costs of material plus personnel costs and frequency of dressing change.

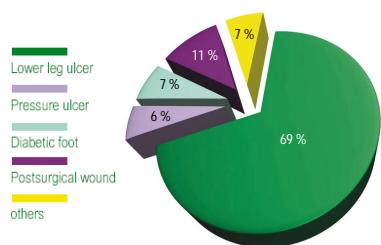


Fig. 1
Distribution of indications

Fig. 1 shows the indicational distribution of the included wounds. Nearly typical the percentage of lower leg ulcers with 69%.

Patients: n = 60
Age: 73 (46-89 years)
Sex: female /male 32/28
Wounds: n = 73
Wound ager: 7,7 (0,1-24 month)
Initiale wound infection: 0 %
Dressing change interval: Ø 4,9 Tage

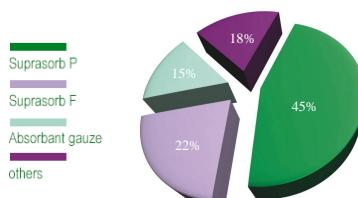


Fig. 2
Distribution of secondary dressings

HydroBalance biocellulose based wound dressing* = Suprasorb® X

References

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

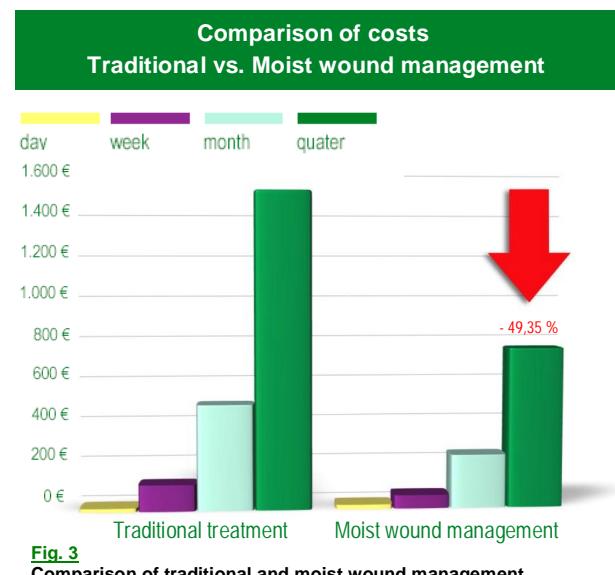


Fig. 3
Comparison of traditional and moist wound management

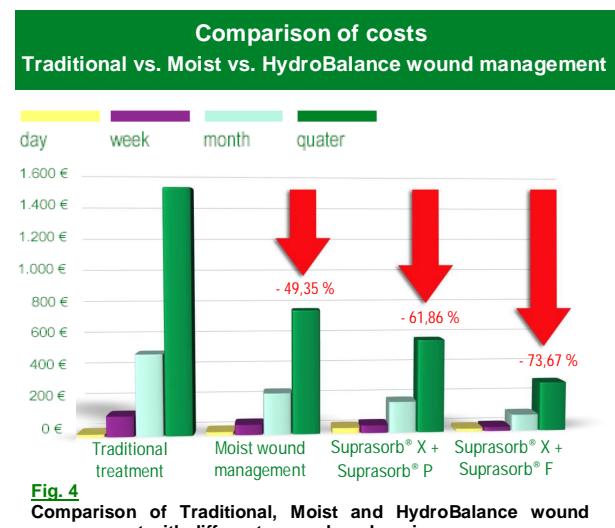


Fig. 4
Comparison of Traditional, Moist and HydroBalance wound management with different secondary dressings

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 significantly reduced (with foam as secondary dressing: -61,86%; with film dressing: -73,67%; Fig 4) in comparison to traditional wound management.