Comparison of a novel non-medicated bacteria-binding dressing to silver dressings in the management of acute and chronic skin lesions

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**Introduction**
The need to control infectious complications in chronic skin lesions of the lower limbs and acute traumatic injury was the basis of this comparison work between silver dressings and a novel highly hydrophobic bacteria-binding dressing coated with dialkylcarbamoylchloride (DACC), Cutimed® Sorbact® Gel.

**Methods and Materials**
A total of 40 patients with chronic skin lesions of the lower limbs and 40 with acute trauma (75% of them burns) were treated with dressings containing silver (50% of each group) or with Cutimed® Sorbact® Gel, a DACC-coated dressing impregnated with a hydrogel (50%), randomly selected. Each wound was evaluated for signs of clinical infection and pain levels were assessed by Visual Analog Scale (VAS). Patients were clinically observed until wounds were healed or for a total time of 4 months.

**Results**
In almost all patients (2 drop-outs) the use of Cutimed® Sorbact® Gel led to a good control of bacterial load in both types of lesions, without any complication by infection. In the group treated with silver dressings, 12 patients developed signs of infection (2 drop-outs). Additionally, the DACC-coated dressings, unlike those based on silver, allowed atraumatic removal in all cases.

Here, the clinical cases of three patients from the group treated with Cutimed® Sorbact® Gel are presented.

**Conclusion**
The use of bacteria-binding DACC-coated dressings (Cutimed® Sorbact® Gel) has shown excellent results in the control of bacterial load, even better than those obtained with the application of silver dressings.

Especially in the treatment of acute post-traumatic injuries (particularly burns), patients treated with the bacteria-binding DACC-dressing recorded a greater decrease in pain (mean VAS: 4) in comparison to patients treated with silver dressings (mean VAS: 8). In addition, the healing process of wounds treated with bacteria-binding dressings was accelerated compared to wounds treated with silver dressings (average of 12 days versus 20 days).

*Cutimed® Sorbact®, BSN medical Inc., Charlotte, NC*