

Introduction

According to the latest report from the World Health Organization, an estimated 265,000 deaths occur every year as a direct result of burn injuries. The majority of burns are 2nd degree burns, affecting the epidermis and the superficial parts of the dermis, requiring a well-orchestrated, complex healing process. Various skin substitutes and dressings offer potential advantages over traditional treatments. Nevertheless, the search for an ideal skin substitute still continues.

SpinCare™ offers a fully individualized, patient-tailored, bedside created nano-fibrous dressing, with no-contact between patient and caregiver, thus minimizing the risk for infection.

Patient History & Treatment

BL, 63 year old obese male, with a history of hypertension, was admitted to the Emergency Room suffering from a 2nd degree superficial to intermediate burn, 3% TBSA on the right lower leg caused by hot water. He was already treated 4 days earlier with Silverol and went to the ER due to pain. The burn was cleaned with saline and treated with the SpinCare™ System. A dry secondary dressing was applied.

Results

The SpinCare™ dressing was left on the wound until full recovery. The dressing gradually peeled off by itself from the epithelialized areas. Pain decreased on the VAS scale from 5 before dressing to 3 immediately thereafter. One week after dressing healing was achieved in 50% of the area followed by complete healing on day 14.

Conclusions

The healing process was quick and effective. The SpinCare™ dressing supported skin regeneration following a 2nd degree burn within 14 days with no need for dressing removal or replacement; the transparency of the dressing allowed daily wound assessment.



Day 0 Pre-dressing



Day 0 Post-dressing



Day 7



Day 14



Day 21



3 Month