

Change lives, not dressings.

Case Report 4

Using the Spincare™ System for partial thickness mixed burn

Rambam Health Care Campus

Introduction

Over 30,000 people suffer from new burns worldwide every day that are severe enough to warrant medical attention. Most burns are considered to be partial thickness skin wounds, requiring a well-orchestrated, complex healing process. Various skin substitutes and dressings offer potential advantages over traditional treatments.

Spincare uses Electrospun Healing Fibers (EHF™) to create an on-the-spot, fully tailored nanofibrous personalized matrix for any wound shape and contour using electrospinning technology, which structurally mimics the extracellular matrix, serving as an excellent medium for tissue repair and healing.

Patient's History & Treatment

BB, 54 Y-old, was admitted due to burn injuries to the shin area on both legs. The burn was evaluated as superficial partial thickness (2nd degree), 18% TBSA. At first the patient was treated with a hypochlorite solution and after 3 days the treatment was changed to the Spincare matrix. After 6 days of treatment the burn was re-evaluated and suspected to be full thickness (3rd degree). Treatment was changed to hypochlorite solution soaks, applied above the Spincare matrix.

Case Results

The Spincare matrix stayed on for the full healing period, with no need of reapplication and showed excellent adherence to the wound throughout the healing period. Its transparency allowed for wound re-evaluation and decision making when a deeper degree burn was suspected and change of treatment was needed. Evaluation of the burn on day 2 led to the understanding that the burn was of mixed depth with deeper areas, supported by the whitish appearance of the Spincare matrix. By day 22 the burn was completely healed.

Conclusions

The Spincare's transparency allowed for wound re-evaluation and decision making when a deeper degree burn was suspected and thus a change of treatment was needed. The combination of the hypochlorite solution soaks applied above the Spincare matrix redeemed the need for grafting and allowed excellent natural healing and scarring in a relatively short time.

